STR-AV720

SERVICE MANUAL

US Model
Canadian Model
Australian Model

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8-ohm load, both channels driven, from 20 – 20,000 Hz, rated 80 watts per channel minimum RMS power, with no more than 0.08% total harmonic distortion from 250 milliwatts to rated output.

Other Specifications

Amplifier section

Dynamic power output	8 ohms, at 1 kHz IHF	110 + 110 watts
	4 ohms, at 1 kHz IHF	140 + 140 watts
Harmonic distortion at rated output		Less than 0.08%
Intermodulation (IM) distortion at rated output		Less than 0.08%
Power output of surround amplifier (8 ohms, at 1 kHz)		20 watts (10 + 10 watts)
Frequency response	PHONO RIAA	equalization curve ± 0.5 dB
	CD, DAT, TAPE 1,2 VIDEO 1,2	10 Hz – 50 kHz $^{+0}_{-3}$dB
Residual noise		Less than 80μV
Damping factor (8 ohms, at 1 kHz)		40
Input sensitivity/ impedance	PHONO MM	2.5 mV, 50 kilohms
	DAT,CD, VIDEO 1,2 TAPE 1,2	150 mV 50 kilohms

Amplifier section

S/N	PHONO MM	87 dB 79 dB* (A,2.5mV)
	DAT, CD VIDEO 1,2 TAPE 1,2	105 dB 85 dB* (A,150mV)
Output sensitivity/ impedance	DAT OUT TAPE OUT 1,2 VIDEO 1	150 mV 10 kilohms
	SPEAKERS	Accepts seakers of 8 – 16 ohms
	HEADPHONES	Accepts headphones of high and low impedance
TONE controls		BASS: ±10dB at 100 Hz TREBLE: ±10dB at 10 kHz
MUTING		−20dB
DBFB		+10 dB (70 Hz)

* '78IHF

Video section

Inputs	VIDEO 1,2: 1 Vp-p 75 ohms
Outputs	VIDEO 1, MONITOR: 1 Vp-p 75 ohms

— continued on next page —

FM STEREO/FM-AM RECEIVER

SONY®

FM tuner section

Frequency range		87.5 – 108.0 MHz
Antenna terminals		300 ohms, balanced 75 ohms, unbalanced
Sensitivity at 50 dB		18.3 dBf, 4.5 μV (mono) 38.3 dBf, 45 μV (stereo)
Usable sensitivity		11.2 dBf, 2 μV (IHF)
S/N	Mono	80 dB
	Stereo	74 dB
Harmonic distortion at 1 kHz	Mono	0.3 %
	Stereo	0.5 %
IM distortion	Mono	0.3 %
	Stereo	0.5
Separation		45 dB at 1 kHz
Frequency response		30 Hz – 15 kHz $^{+0}_{-2}$ dB
Selectivity		60 dB at 400 kHz
Capture ratio		1.2 dB
AM suppression ratio		54 dB
Image response ratio		70 dB
IF response ratio		70 dB
Spurious response ratio		80 dB
RF intermodulation at 800 kHz		60 dB
Auto tuning threshold	Low	30 dBf
	High	50 dBf

AM tuner section

Frequency range	USA and Canadian model: 530 – 1710 kHz (with 10 kHz interval) 531 – 1710 kHz (with 9 kHz interval) Australian model: 531 – 1710 kHz
Antenna	Loop antenna
Usable sensitivity	50 dB/m (at 1,000 kHz or 999 kHz)
S/N	54 dB (at 50 mV/m)
Harmonic distortion	0.5% (50 mV/m, 400 Hz)
Selectivity	35 dB (9 kHz), 40 dB (10 kHz)
Auto tuning threshold	55 dB/m

General

System	Tuner section	PLL quartz-locked digital synthesizer system
	Preamplifier section	Low-noise NF type equalizer
	Power amplifier section	Quasi-complimentary SEPP
Power requirements		USA and Canadian models: 120 V AC, 60 Hz Australian model: 240 V AC, 50/60 Hz
Power consumption		USA model: 190 watts Canadian model: 360 VA Australian model: 200 watts
AC outlets (USA and Canadian models only)		Two switched, total 100 watts
Dimensions		430 x 135 x 350 mm (17 x 53/8 x 14 1/8 inches)
Weight		USA and Canadian model: 9.5 kg (21 lb) Australian model: 9.8 kg (21 lb 10 oz)

Supplied accessories
FM ribbon antenna (1)
AM loop antenna (1)
Remote commander (1) RM-S103
Sony Batteries SUM-3(NS) (2)

Design and specifications subject to change without notice.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

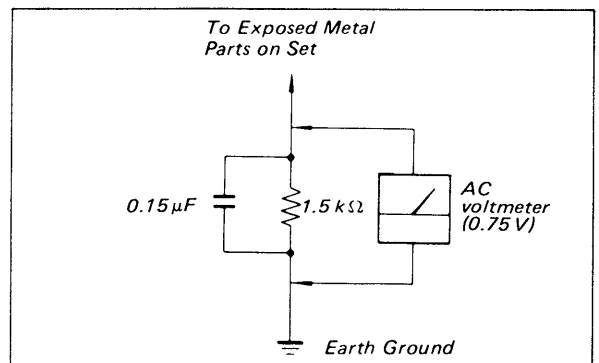

Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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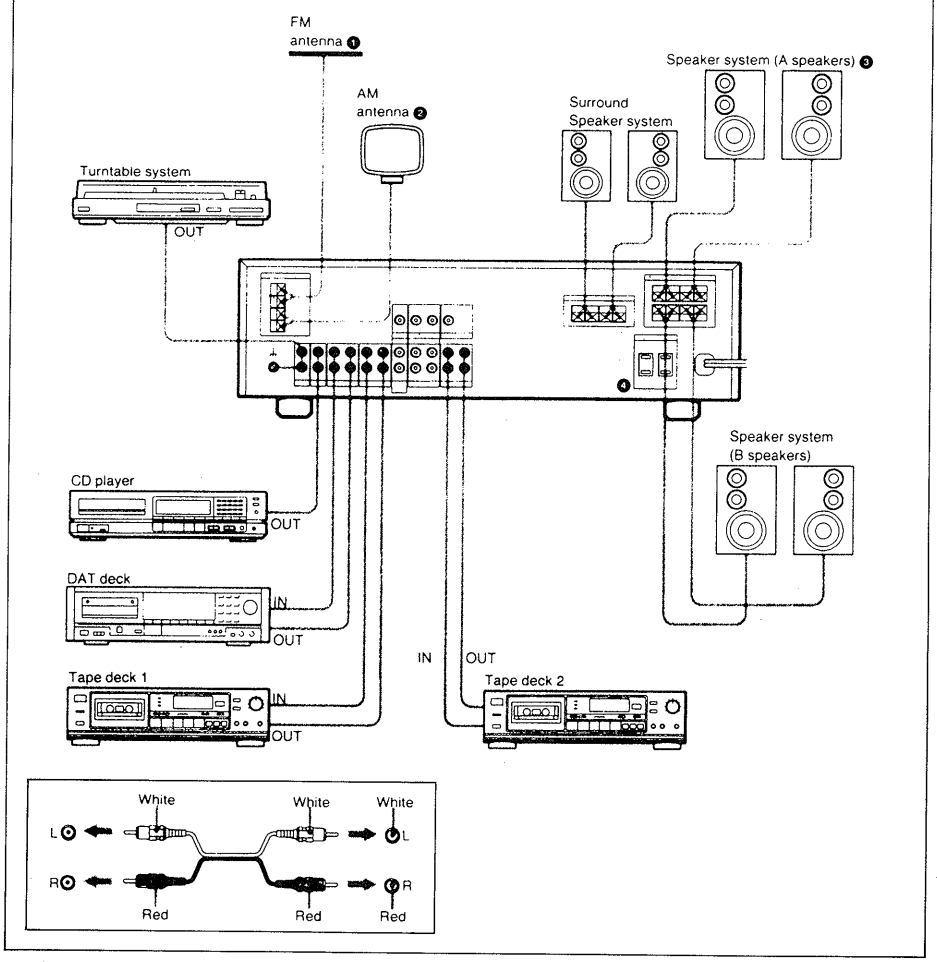
SECTION 1
GENERAL

1-1. CONNECTIONS

Notes on Connections

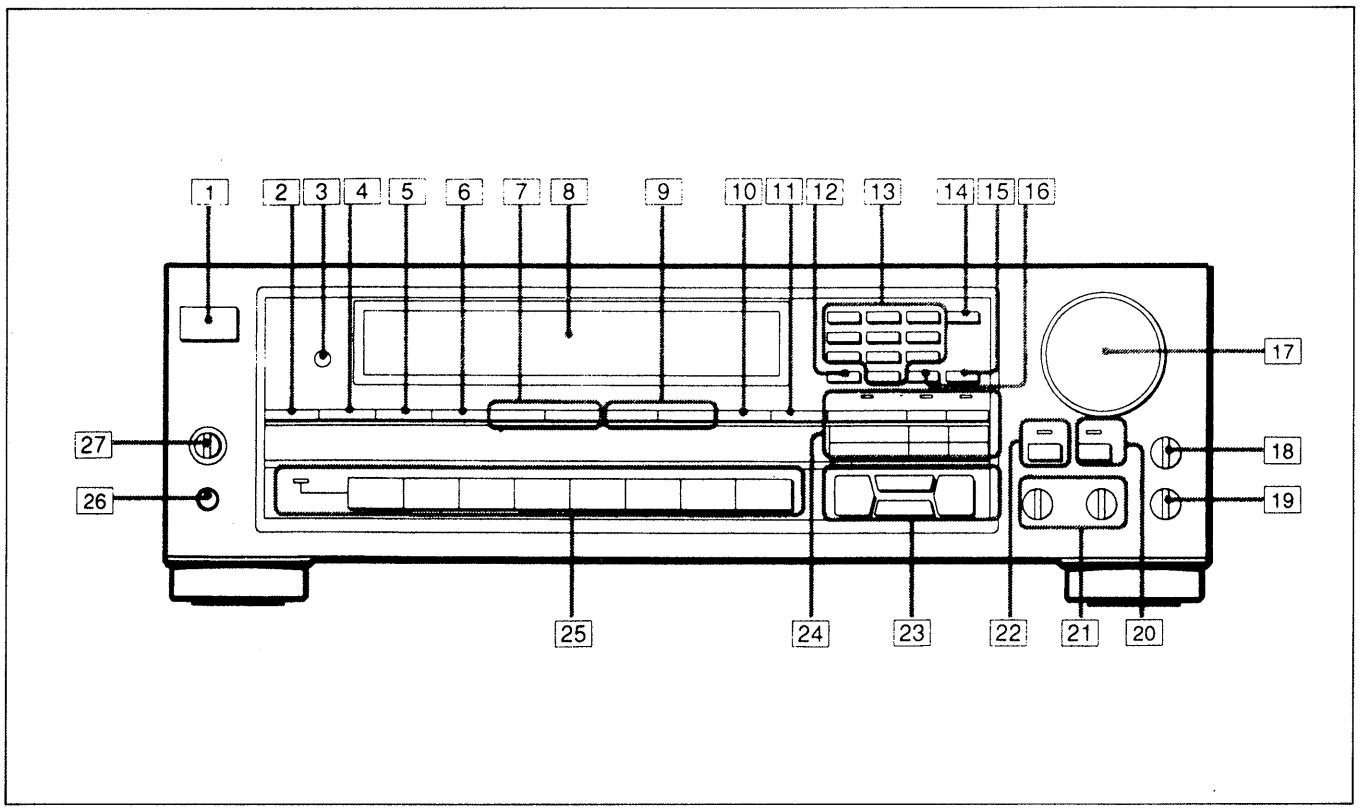
- Do not connect the power cord to an AC outlet nor press the POWER switch before accomplishing all other connections.
- The cable connectors should be fully inserted into the jacks. Loose connection may cause hum and noise.
- Jacks and plugs of the connecting cord are color-coded as follows:
  Red jacks and plugs: for the right channel of audio signals
  White jacks and plugs: for the left channel of audio signals
  Yellow jacks and plugs: for video signals

Connecting Audio Equipment



1-2. PARTS IDENTIFICATION

Front Panel



1 POWER switch

2 SURROUND ON/OFF button

3 Remote control sensor

4 SURROUND MODE selector

5 EDIT AUDIO button

6 INDEX SELECT button

7 INDEX TUNING +/− buttons

8 Display window

9 PRESET TUNING +/− buttons

10 FM MODE button

11 FM/AM button

12 MEMORY button

13 Numeric buttons

14 DISPLAY MODE button (FREQ/INDEX)

15 TUNING DIRECT button

16 SHIFT button

17 VOLUME control

18 INPUT BALANCE control

19 BALANCE control

20 MUTING switch and indicator

21 BASS/TREBLE TONE controls

22 DBFB (Dynamic Bass Feed Back) button and indicator

23 CURSOR MODE operation buttons

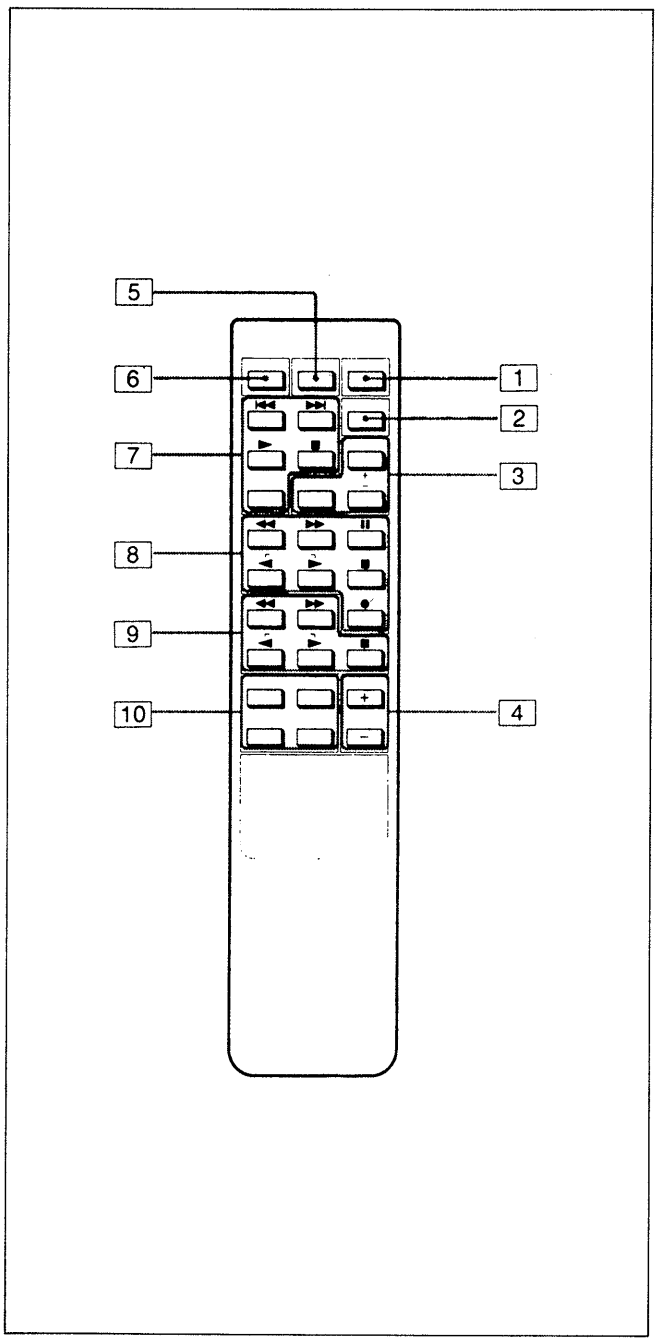
24 CURSOR MODE selectors and indicators

25 Function selectors and TAPE 2 MONITOR indicator

26 HEADPHONES jack

27 SPEAKERS selector

Remote Commander RM-S103



1 **POWER switch**

2 **DBFB button** (page 12)

3 **TUNER PRESET +/− and SHIFT buttons** (pages 16 and 17)

4 **VOLUME +/− buttons**

5 **SURROUND button** (page 22)

6 **MUTING button** (page 12)

7 **CD player operation buttons***
D (disc) SKIP: When your CD player is equipped with a multi-disc changer, use this button to select loaded disc.
CD ▶: Selects the CD function and starts CD playback.

8 **DECK B operation buttons***
DECK B ◀/▶: Select tape function and start tape playback on deck B.

9 **DECK A operation buttons***
DECK A ◀/▶: Select tape function and start tape playback on deck A.

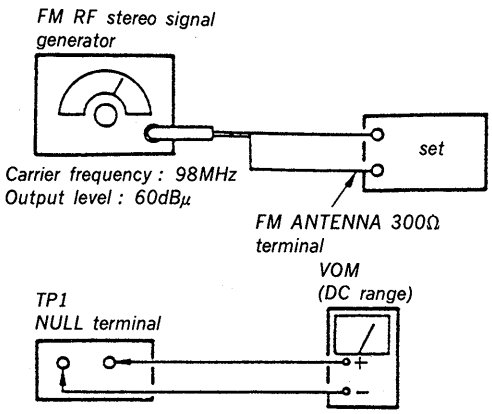
10 **Function selectors**

SECTION 2
ELECTRICAL ADJUSTMENTS

FM SECTION

• FM Discriminator (NULL) Adjustment

Setting :



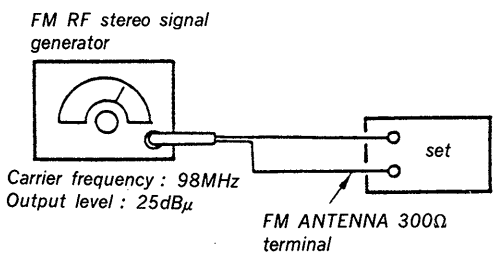
Procedure :

1. Tune the set to 98MHz.
2. Adjust T21 for 0V reading on the VOM.

Note : FM Tuning Level adjustment should be made after FM discriminator adjustment.

• FM Tuning Level Adjustment

Setting :

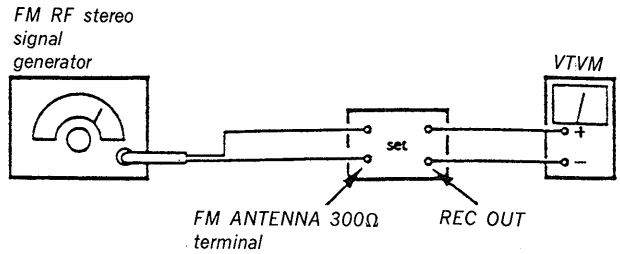


Procedure :

1. Tune the set to 98MHz.
2. Adjust RV24 so that the TUNED LED goes on.

• FM Stereo Separation Adjustment

Setting :



Carrier frequency : 98MHz
Output level : 60dBμ

Procedure :

Tune the set to 98MHz.

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV21 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV21 for minimum reading.

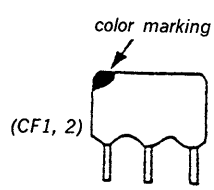
L-CH Stereo separation : Ⓐ-Ⓑ

R-CH Stereo separation : Ⓒ-Ⓓ

The separations of both channels should be equal.

Note on Ceramic Filter (CF1, 2) Replacement.

This set employs two ceramic filters (CF1, 2) which should have the same color marking to identify their center frequency. Therefore FM IF offset adjustment by D216, D217 mounted is necessary to match the center frequency of the ceramic filters used with FM intermediate frequency.

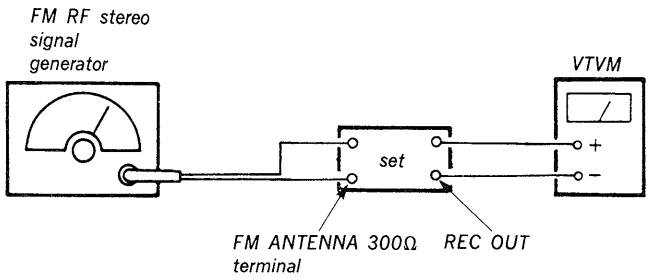


○ : connect
× : not connect

Ceramic filter		Connection		FM intermediate frequency (MHz)
Color mark	Center frequency (MHz)	D216	D217	
White	10.750	×	○	10.750
Red	10.700	○	○	10.700
Black	10.650	○	×	10.650

• Auto Stop Level Adjustment

Setting :



Carrier frequency : 98MHz
Output level : 40dBμ or 45dBμ

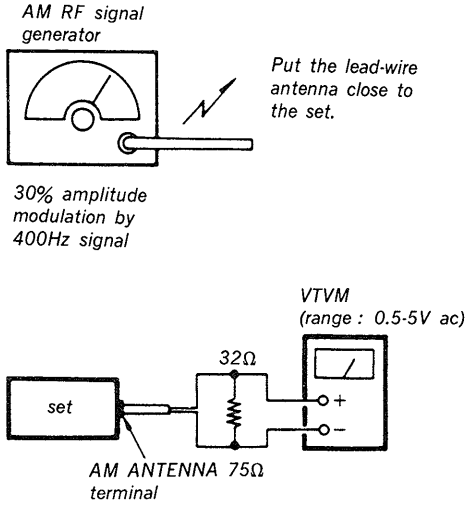
Procedure :

1. Turn the High/Low select switch to High.
2. Adjust RV25 so that the TUNED LED goes on.

AM SECTION

• AM Tuning Level Adjustment

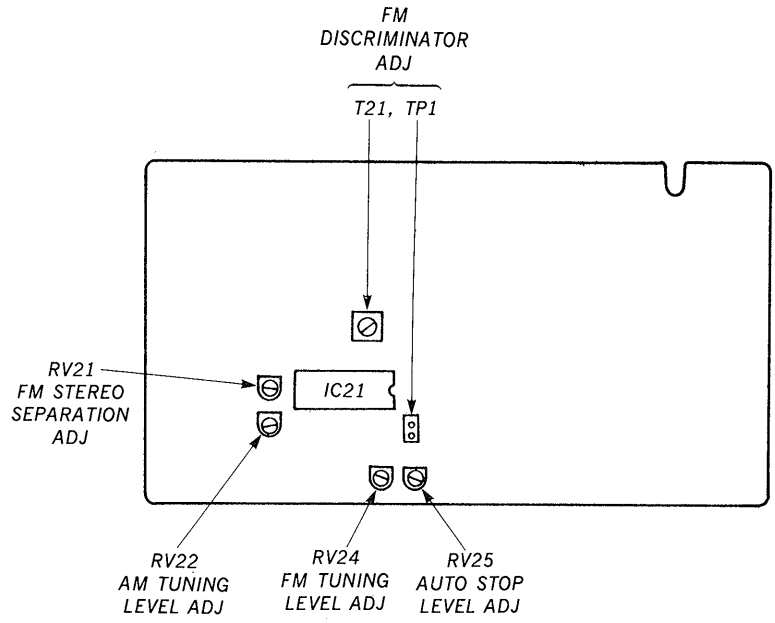
Setting :



Procedure :

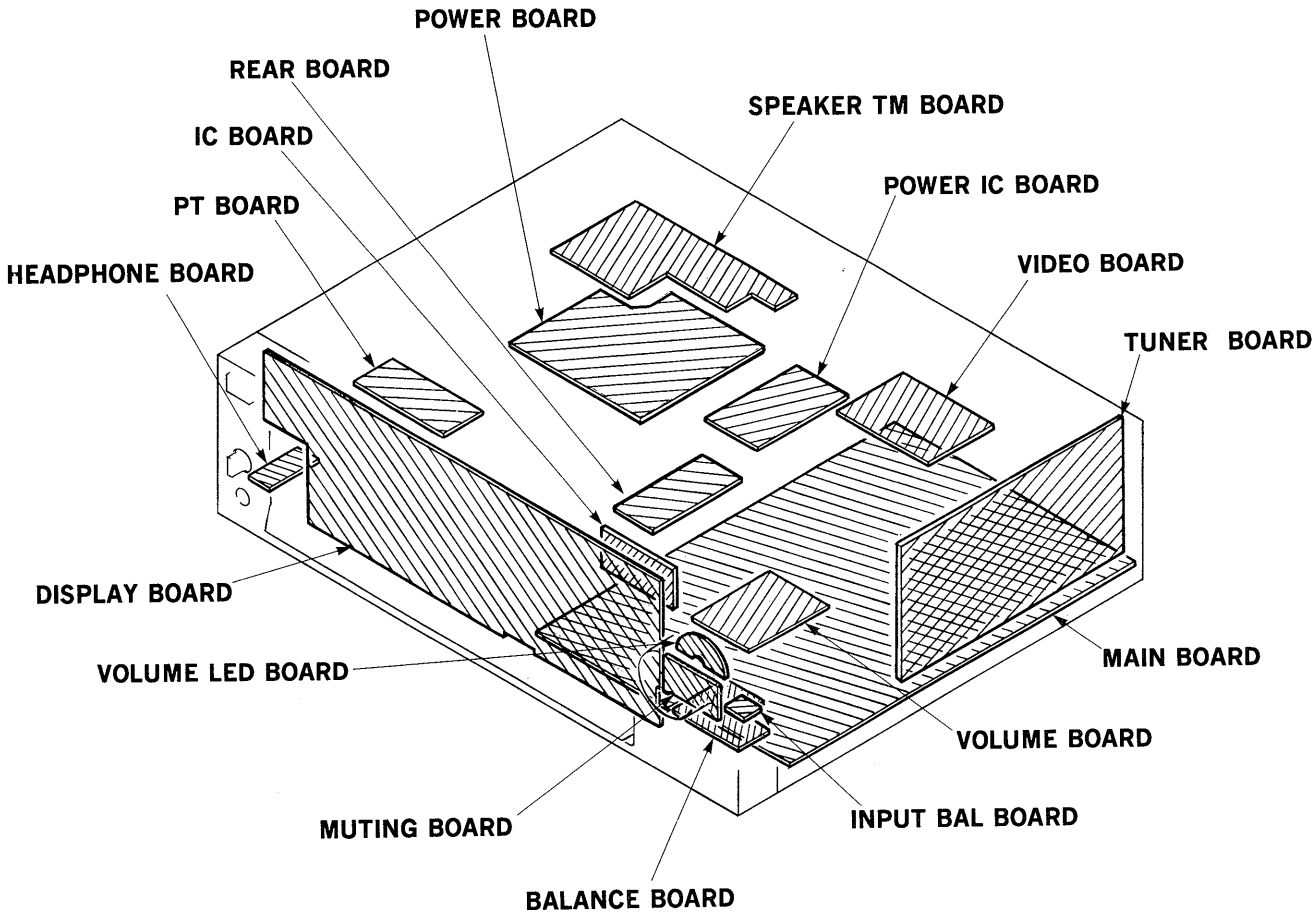
1. Tune the set to 1,050kHz.
2. Adjust the RV22 so that the TUNED LED goes on.

Adjustment Location : tuner board

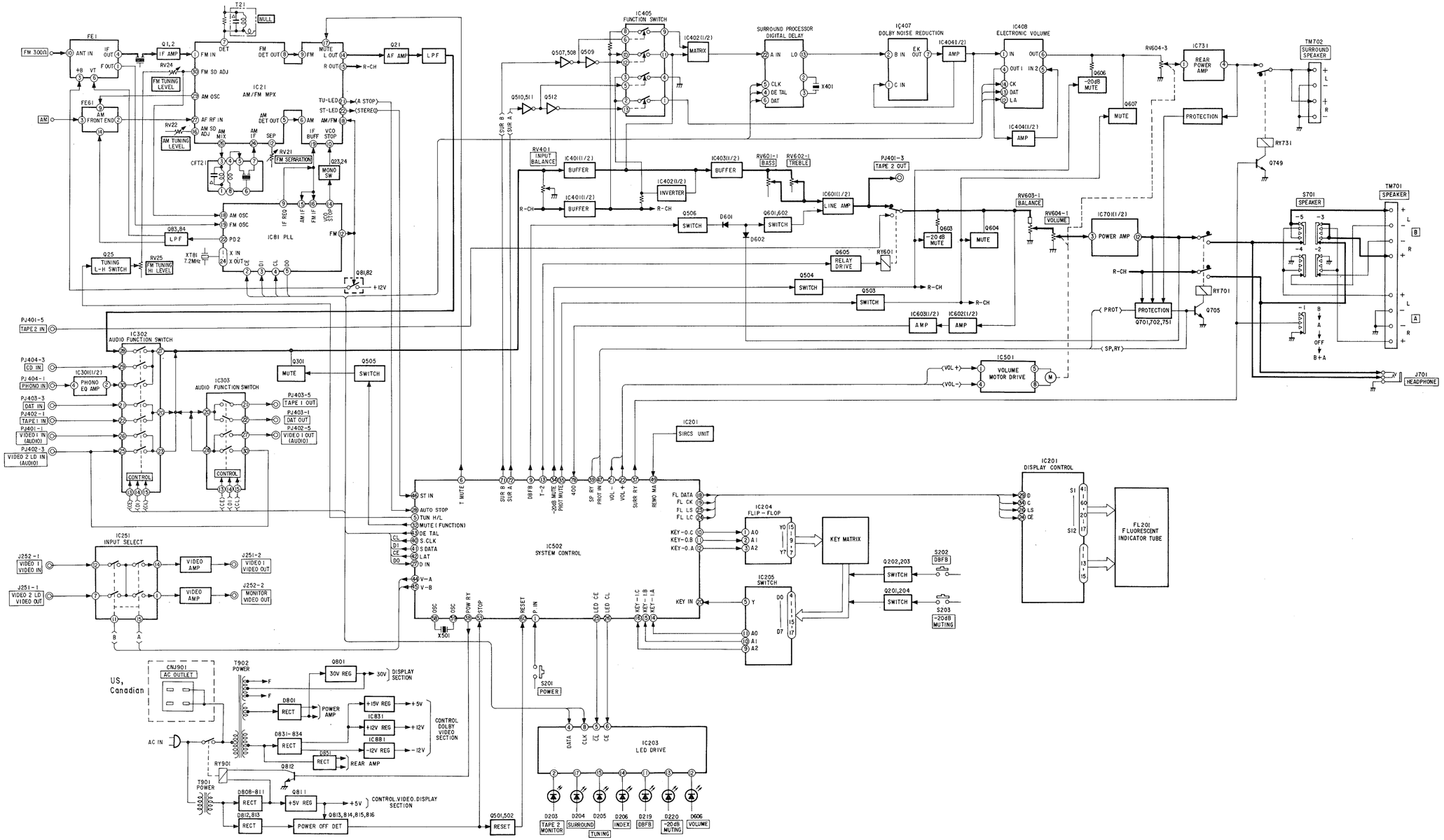


SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



3-2. BLOCK DIAGRAM



3-3. SEMICONDUCTOR LEAD LAYOUTS

M5F78M05L
M5F78M12L

2SA1175-HFE
2SC3623A-LK

RBV-602

M5F79M12L

2SD1585-L

S4VB60

SI-18752

2SK246-GB3

UZP-3.6B

STK-4221V

HZS30-3L
HZS6C3L
1SS120
11ES2

SEL2510C

DTA124ES
DTC124ES
2SC2603-EF

HZ4ALL

SEL2810A-C

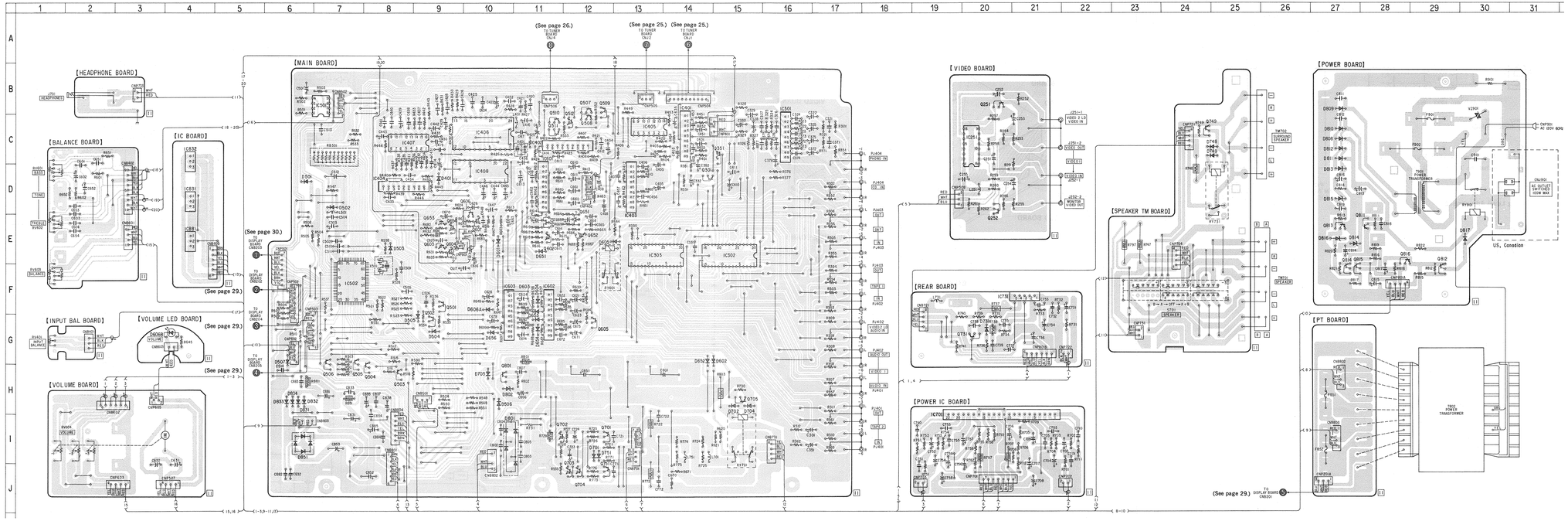
2SA988-F

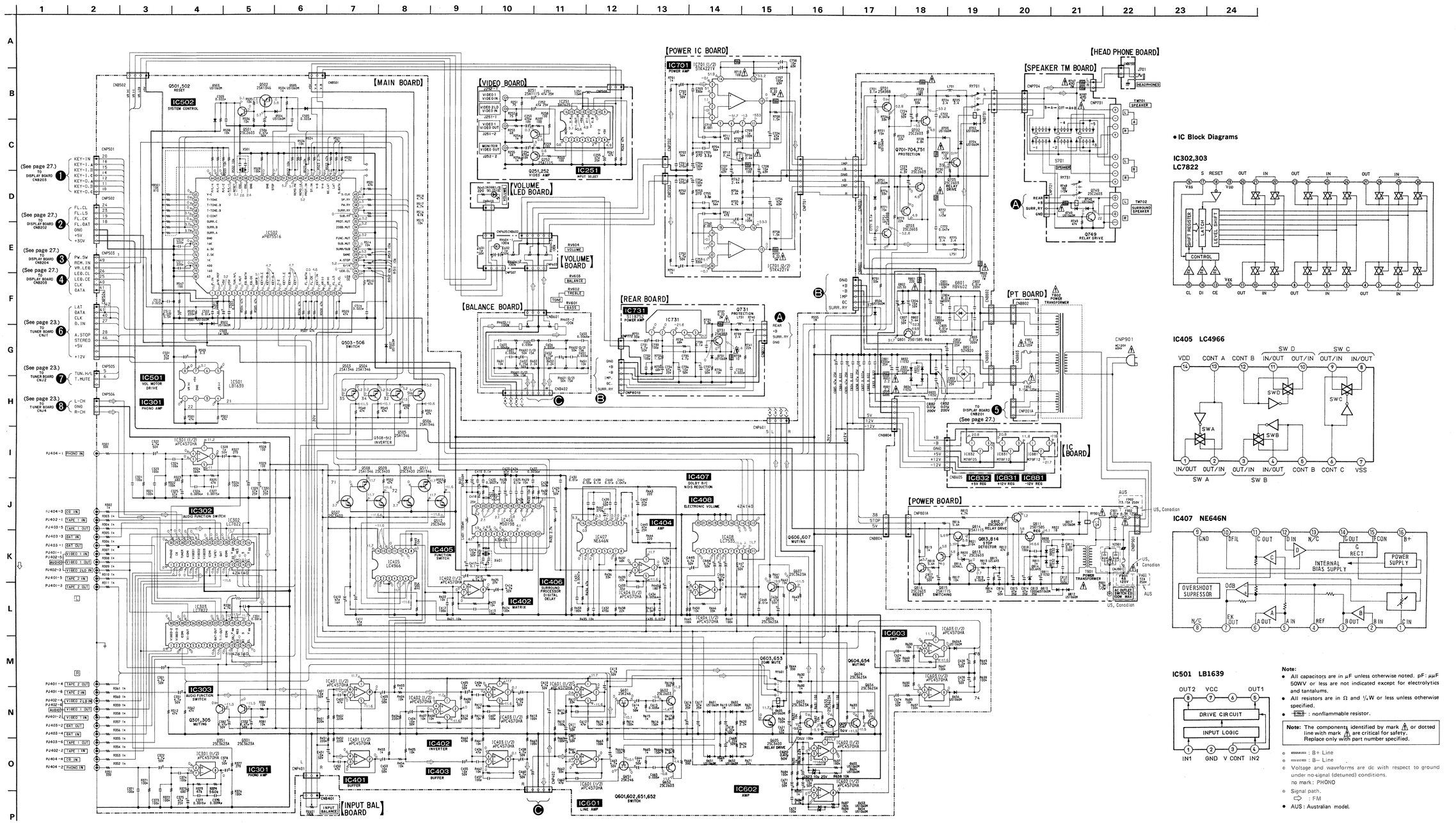
⊙Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D401	D-9	IC603	F-10
D501	D-6	IC701	I-20
D502	D-7	IC731	F-21
D503	E-8	IC831	D-4
D504	G-9	IC832	C-4
D505	G-9	IC881	E-4
D506	H-10		
D507	G-4	Q251	B-20
D601	E-10	Q252	D-20
D602	G-14	Q301	D-14
D603	F-11	Q351	C-15
D604	F-11	Q501	F-9
D605	E-12	Q502	G-9
D606A	F-10	Q503	H-8
D606B	G-4	Q504	H-8
D651	E-11	Q505	H-7
D652	G-14	Q506	H-7
D653	G-11	Q507	B-12
D654	G-11	Q508	C-12
D656	G-10	Q509	B-12
D701	I-12	Q510	C-11
D702	H-15	Q511	C-11
D703	H-10	Q512	C-12
D704	H-15	Q601	E-11
D731	G-20	Q602	E-11
D748	C-20	Q603	E-9
D749	C-20	Q604	E-9
D751	I-12	Q605	G-12
D801	I-10	Q606	D-10
D802	H-10	Q607	E-10
D808	C-27	Q651	E-12
D809	B-27	Q652	E-12
D810	C-27	Q653	E-9
D811	C-27	Q654	E-9
D812	C-27	Q701	I-12
D813	C-27	Q702	I-11
D814	E-27	Q703	J-12
D815	C-27	Q704	I-12
D816	E-27	Q705	H-15
D817	E-30	Q731	G-20
D831	H-6	Q749	C-24
D832	H-6	Q751	J-12
D833	H-6	Q801	H-10
D834	H-6	Q811	E-28
D851	I-6	Q812	F-29
		Q813	E-27
IC251	C-20	Q814	F-27
IC301	C-16	Q815	F-27
IC302	E-15	Q816	E-28
IC303	E-13		
IC401	C-14		
IC402	C-11		
IC403	D-13		
IC404	D-8		
IC405	C-13		
IC406	C-10		
IC407	C-8		
IC408	D-10		
IC501	B-7		
IC502	F-7		
IC601	D-11		
IC602	F-11		

Note:
⊙ ○—— : parts extracted from the component side.

3-4. PRINTED WIRING BOARDS —MAIN SECTION—





- IC Block Diagrams

Note:

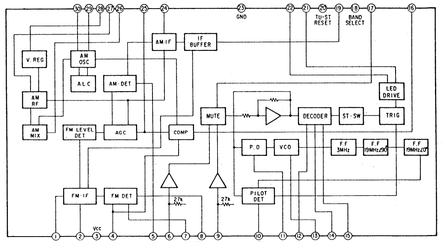
- All capacitors are in μF unless otherwise noted. pF: μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- : nonflammable resistor.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

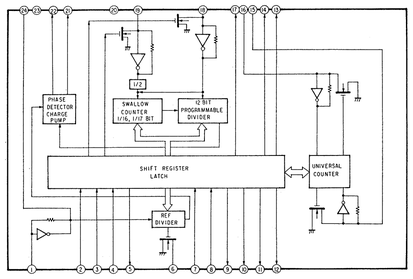
- : B+ Line
- : B– Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : PHONO
- Signal path.
  : FM
- AUS : Australian model.

• IC Block Diagrams

IC21 LA1858N

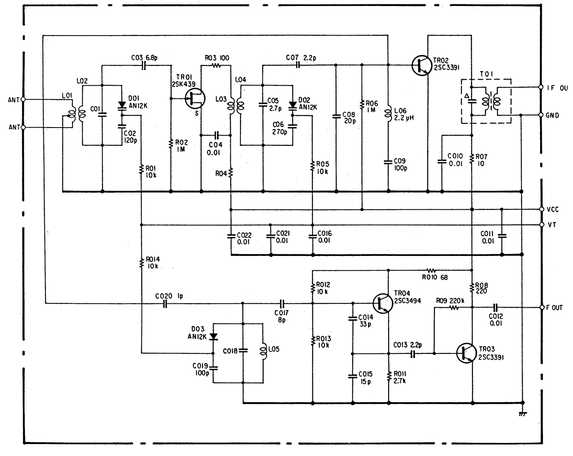


IC81 LC7218



• FM FRONT-END Schematic Diagram

FE1

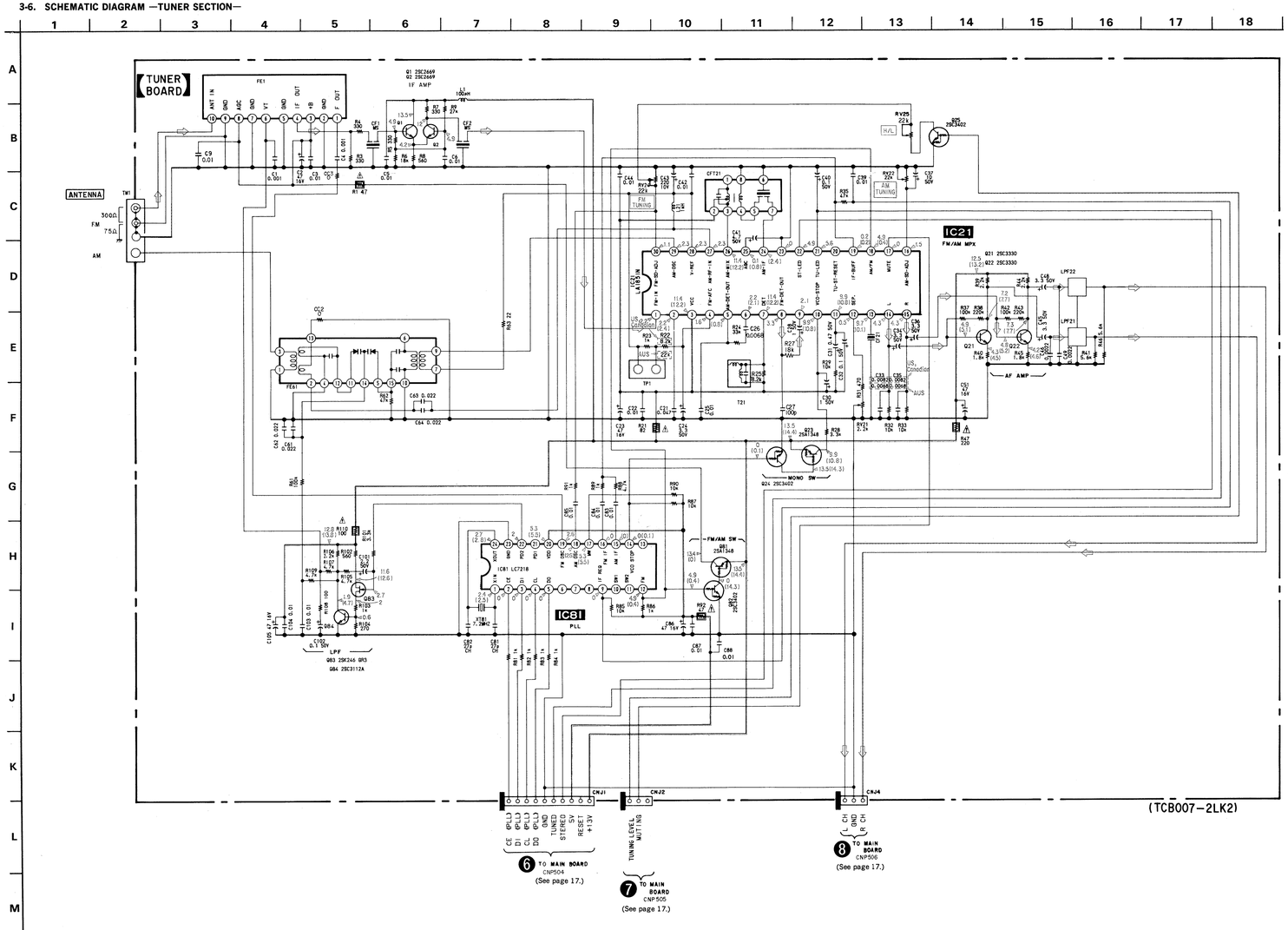


Note:
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantaliums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- ▭ : nonflammable resistor.

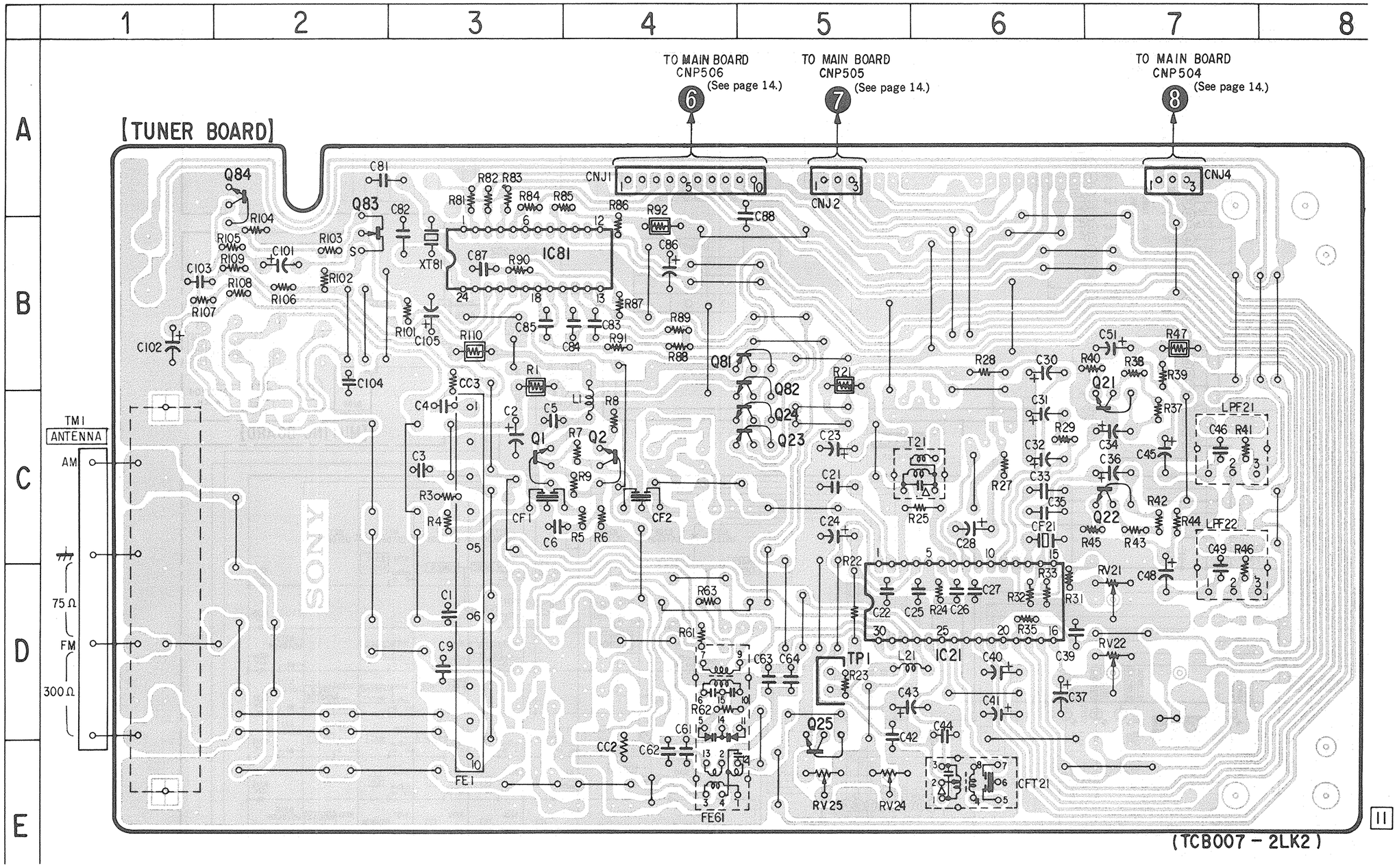
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- ▭ : B+ Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
- AUS : Australian model.

3-6. SCHEMATIC DIAGRAM —TUNER SECTION—


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
A B C D E F G H I J K L M
TUNER BOARD
ANTENNA
TW1
300Ω FM 75Ω AM
FE1
Q1 2SC2669 Q2 2SC2669 IF AMP
FM TUNING
AM TUNING
IC21 FM/AM MPX
Q21 2SC3330 Q22 2SC3330
AF AMP
MONO SW Q24 2SC3402
IC81 LC7218 PLL
LPF Q83 2SK246 GR3 Q84 2SC3112A
FM/AM SW Q81 2SK1348
CN21
CN22
CN24
CE (PLL) CL (PLL) DI (PLL) DO (PLL) IOUT TUNED STEREO 5V RESET 9V
6 TO MAIN BOARD CNP504
(See page 17.)
TUNING LEVEL MUTING
7 TO MAIN BOARD CNP505
(See page 17.)
L CH GND R CH
8 TO MAIN BOARD CNP506
(See page 17.)
(TCB007-2LK2)

3-7. PRINTED WIRING BOARD —TUNER SECTION— • Refer to page 12 for Semiconductor Lead Layouts.



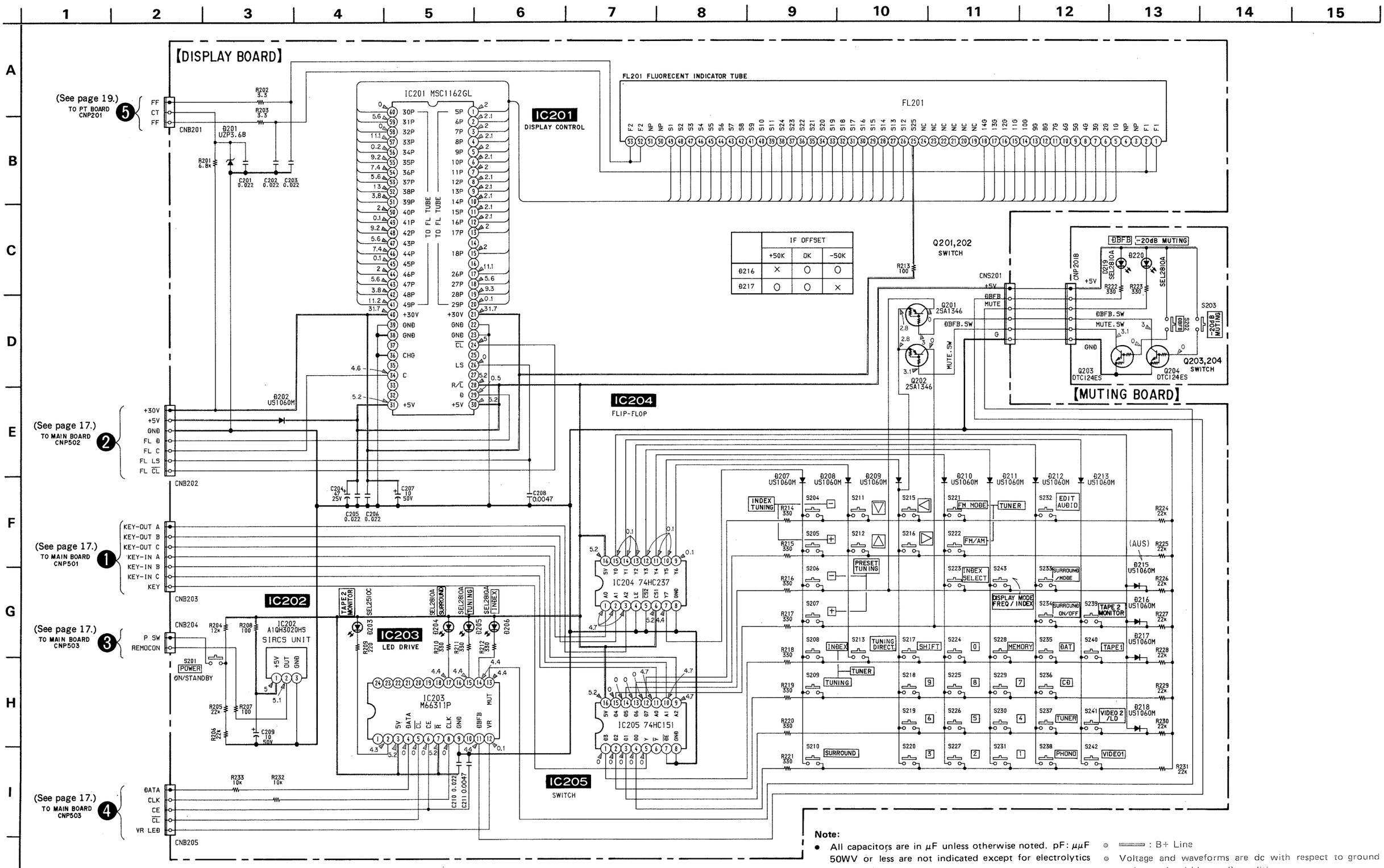
• Semiconductor Location

Ref. No.	Location
IC21	D-6
IC81	B-3
Q1	C-3
Q2	C-4
Q21	C-7
Q22	D-7
Q23	C-5
Q24	C-5
Q25	D-5
Q81	B-5
Q82	C-5
Q83	B-2
Q84	A-2

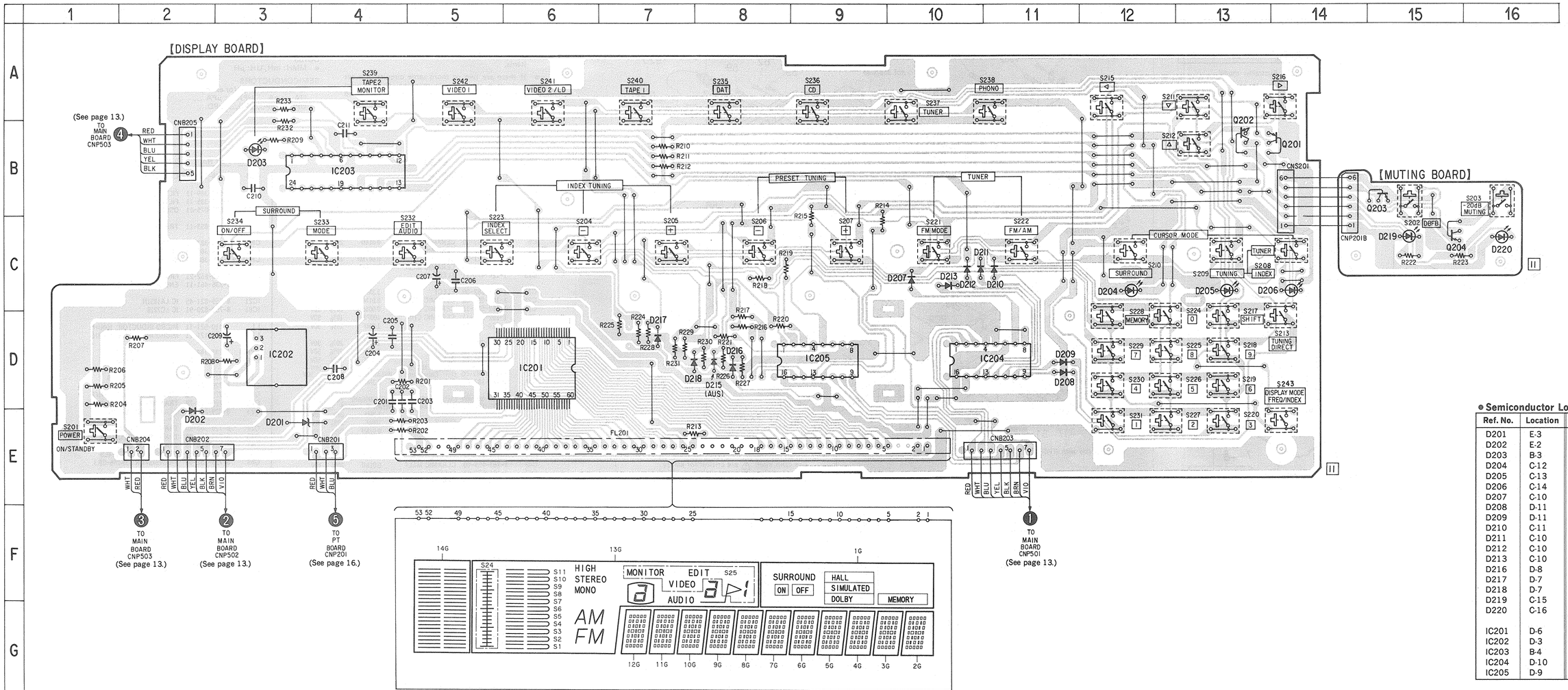
Note:

• ○—— : parts extracted from the component side.

3-8. SCHEMATIC DIAGRAM —DISPLAY SECTION—



3-9. PRINTED WIRING BOARD —DISPLAY SECTION— • Refer to page 12 for Semiconductor Lead Layouts.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D201	E-3	Q201	B-14
D202	E-2	Q202	B-13
D203	B-3	Q203	B-15
D204	C-12	Q204	C-15
D205	C-13		
D206	C-14		
D207	C-10		
D208	D-11		
D209	D-11		
D210	C-11		
D211	C-10		
D212	C-10		
D213	C-10		
D216	D-8		
D217	D-7		
D218	D-7		
D219	C-15		
D220	C-16		
IC201	D-6		
IC202	D-3		
IC203	B-4		
IC204	D-10		
IC205	D-9		

Note:
- ○—— : parts extracted from the component side.
- AUS : Australian model.

SECTION 4
EXPLODED VIEWS

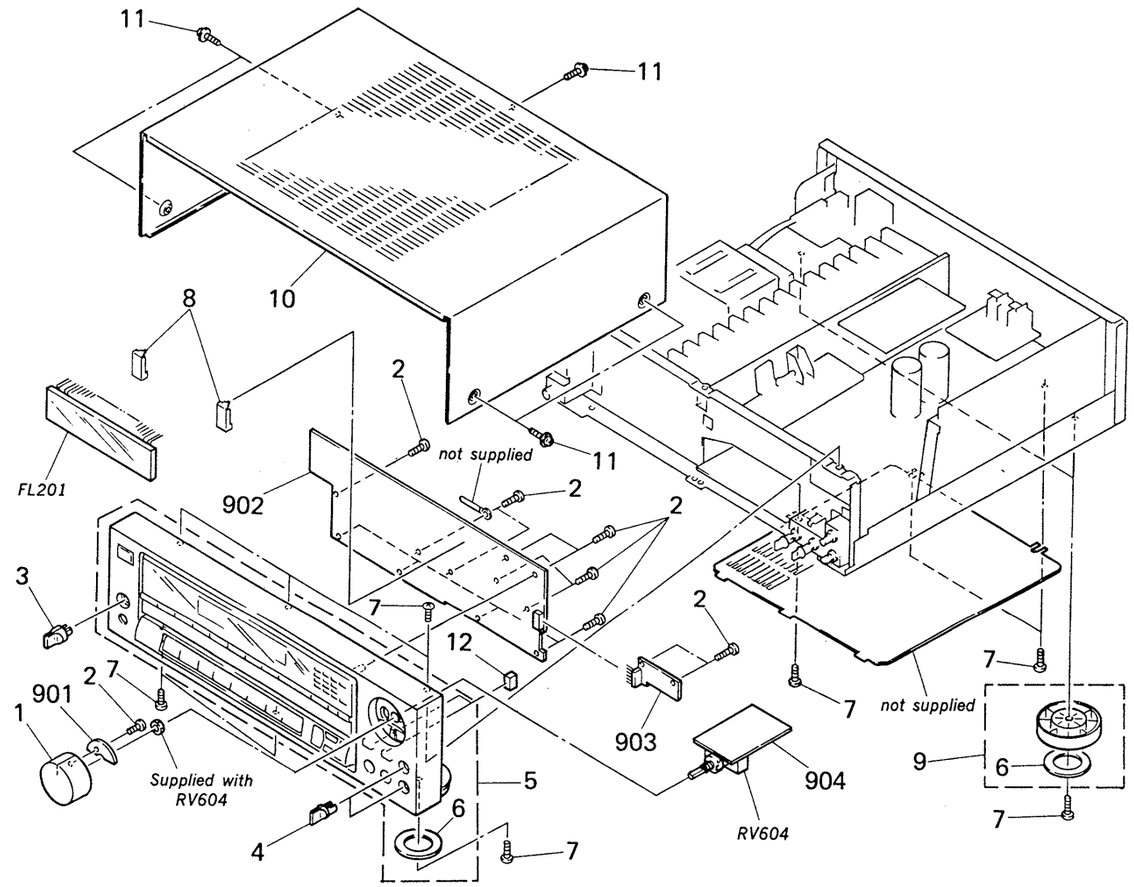
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ ↑
  Cabinet's Color Parts Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

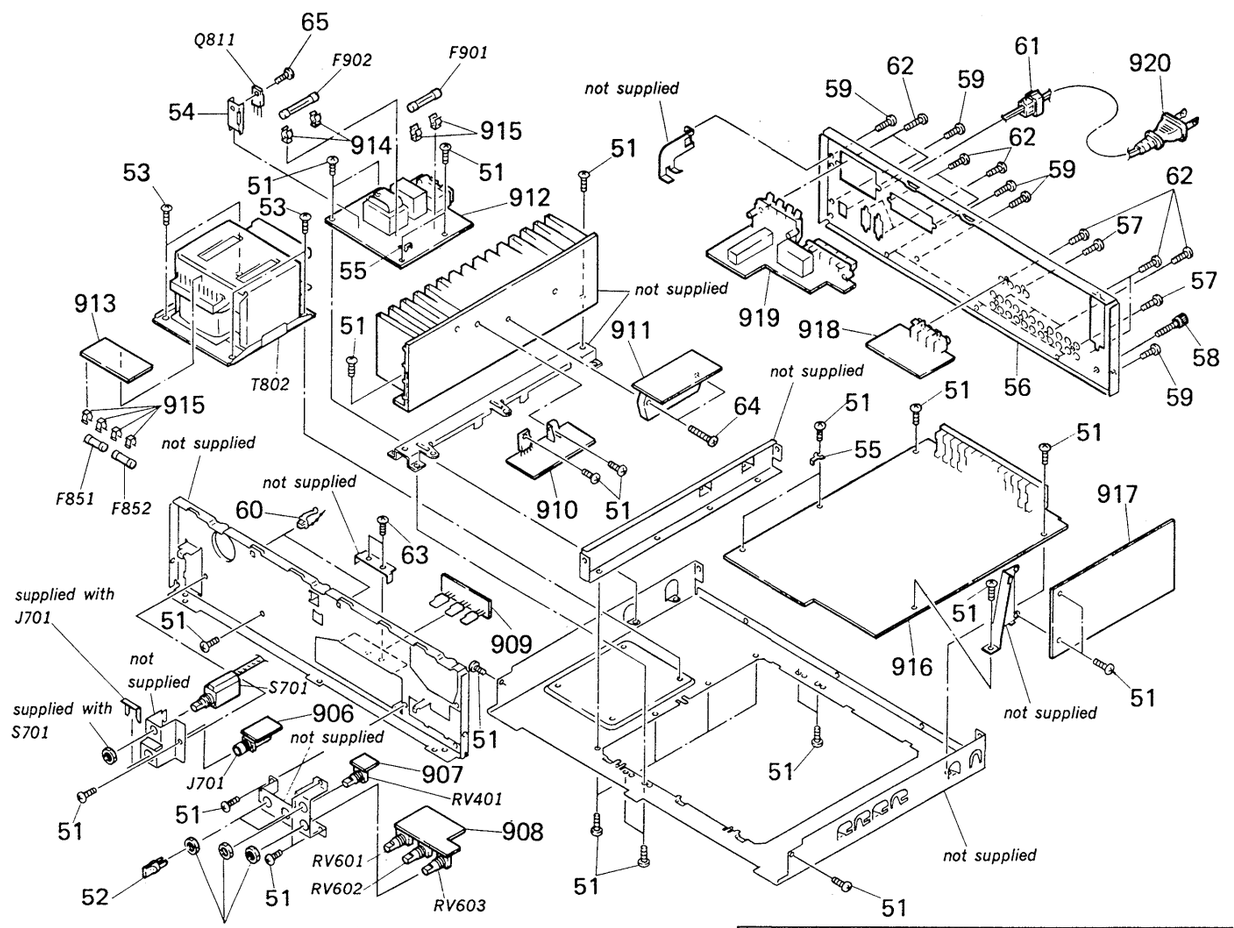
- AUS : Australian model.

4-1. FRONT PANEL SECTION



Ref.No	Part No.	Description	Remarks
1	4-929-288-01	KNOB (VOL 47)	
2	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
3	4-908-097-21	KNOB	
4	4-925-014-01	KNOB (DIA.10)	
5	X-4906-835-1	PANEL ASSY, FRONT	6
6	4-923-836-11	CUSHION	
7	7-682-548-04	SCREW +BVTT 3X8 (S)	
8	*4-924-989-11	HOLDER (FL TUBE)	
9	X-4885-950-1	FOOT ASSY	6
10	*4-924-920-71	CASE	
11	3-704-366-01	SCREW (CASE) (M3X8)	
12	9-911-841-XX	CUSHION	
901	*1-634-875-11	PC BOARD, VOLUME LED	
902	*A-4334-788-A	(US, Canadian)...MOUNTED PCB, DISPLAY	
902	*A-4341-345-A	(AUS)...MOUNTED PCB, DISPLAY	
903	*1-634-876-11	PC BOARD, MUTING	
904	*1-634-878-11	IC BOARD, VOLUME	
FL201	1-519-603-11	INDICATOR TUBE, FLUORESCENT	
RV604	1-241-027-11	RES, VAR, CARBON 100K/100K/100K (VOLUME)	

4-2. CHASSIS SECTION



Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No	Part No.	Description	Remarks
51	7-682-548-04	SCREW +BVTT 3X8 (S)	
52	4-925-014-01	KNOB (DIA.10)	
53	7-682-561-04	SCREW +BVTT 4X8 (S)	
54	*3-309-144-21	HEAT SINK	
55	*4-904-446-11	PLATE, GROUND	
56	*4-931-995-01	(US)...PANEL, BACK	
56	*4-931-995-11	(Canadian)...PANEL, BACK	
56	*4-931-995-21	(AUS)...PANEL, BACK	
57	7-621-849-00	SCREW, TAPPING	
58	3-706-165-00	SCREW	
59	7-682-548-09	SCREW +BVTT 3X8 (S)	
60	3-701-748-00	CLAMP	
61	*3-703-244-00	BUSHING (2104), CORD	
62	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
63	7-682-550-04	SCREW +BVTT 3X12 (S)	
64	7-682-552-04	SCREW +BVTT 3X16 (S)	
65	7-682-547-04	SCREW +BVTT 3X6 (S)	
906	*1-634-883-11	IC BOARD, HEADPHONE	
907	*1-634-880-11	IC BOARD, INPUT BAL	
908	*1-634-879-11	IC BOARD, BALANCE	
909	*1-634-873-11	IC BOARD, IC	
910	*1-634-872-11	IC BOARD, REAR	
911	*1-634-884-11	PC BOARD, POWER IC	
912	*1-634-877-11	PC BOARD, POWER	
913	*1-636-122-11	PC BOARD, PT	
914	*1-533-183-11	(AUS)...HOLDER, FUSE	
914	*1-533-185-11	(US, Canadian)...HOLDER, FUSE	
915	1-533-183-11	HOLDER, FUSE	
916	*A-4334-798-A	MOUNTED PCB, MAIN	55
917	*A-4303-282-A	(US, Canadian)...MOUNTED PCB, TUNER (TCB 007-2LK2)	
917	*A-4303-321-A	(AUS)...MOUNTED PCB, TUNER (TCB 007-20K)	
918	*1-634-882-11	IC BOARD, VIDEO	
919	*1-634-881-11	IC BOARD, SPEAKER TM	
920	⚠1-557-577-11	(US, Canadian)... CORD, POWER	
920	⚠1-559-912-11	(AUS)... CORD, POWER	
F851	⚠1-532-745-11	FUSE, GLASS TUBE (3.15A/125V)	
F852	⚠1-532-745-11	FUSE, GLASS TUBE (3.15A/125V)	
F901	⚠1-532-598-00	FUSE, GLASS TUBE	
F902	⚠1-532-509-00	FUSE, GLASS TUBE 6.3A	
J701	1-507-796-71	JACK (HEADPHONES)	
Q811	8-729-107-25	TRANSISTOR 2SD1585-L	
RV401	1-241-049-11	RES, VAR, CARBON 100K (INPUT BALANCE)	
RV601	1-241-047-11	RES, VAR, CARBON 50K/50K (BASS)	
RV602	1-241-047-11	RES, VAR, CARBON 50K/50K (TREBLE)	
RV603	1-241-048-11	RES, VAR, CARBON 100K/100K (BALANCE)	
S701	1-572-291-11	SWITCH, ROTARY SLIDE	
T802	⚠1-450-083-11	(US)...TRANSFORMER, POWER	
T802	⚠1-450-160-11	(Canadian)...TRANSFORMER, POWER	
T802	⚠1-450-291-11	(AUS)...TRANSFORMER, POWER	

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- AUS : Australian model.

TUNER BOARD

Ref.No	Part No.	Description			
		CAPACITOR			
C1	1-162-294-31	CERAMIC CHIP	0.001MF	20%	25V
C2	1-124-477-11	ELECT	47MF	20%	16V
C3	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C4	1-162-294-31	CERAMIC CHIP	0.001MF	20%	25V
C5	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C6	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C9	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C21	1-161-021-11	CERAMIC	0.047MF	10%	25V
C22	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C23	1-124-477-11	ELECT	47MF	20%	16V
C24	1-123-382-00	ELECT	3.3MF	20%	50V
C25	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C26	1-162-527-11	CERAMIC CHIP	0.0068MF	20%	12V
C27	1-162-516-11	CERAMIC CHIP	100PF	10%	50V
C28	1-124-791-11	ELECT	1.0MF	20%	50V
C30	1-124-791-11	ELECT	1.0MF	20%	50V
C31	1-124-902-00	ELECT	0.47MF	20%	50V
C32	1-124-463-00	ELECT	0.1MF	20%	50V
C33	1-130-481-00	(AUS)...MYLAR	0.0068MF	5%	50V
C33	1-130-482-00	(US, Canadian)...MYLAR	0.0082MF	5%	50V
C34	1-123-382-00	ELECT	3.3MF	20%	50V
C35	1-130-481-00	(AUS)...MYLAR	0.0068MF	5%	50V
C35	1-130-482-00	(US, Canadian)...MYLAR	0.0082MF	5%	50V
C36	1-123-382-00	ELECT	3.3MF	20%	50V
C37	1-123-875-11	ELECT	10MF	20%	50V
C39	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C40	1-124-463-00	ELECT	0.1MF	20%	50V
C41	1-124-927-11	ELECT	4.7MF	20%	50V
C42	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C43	1-126-176-11	ELECT	220MF	20%	10V
C44	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C45	1-123-382-00	ELECT	3.3MF	20%	50V
C46	1-162-524-11	CERAMIC CHIP	0.0022MF	20%	25V
C48	1-123-382-00	ELECT	3.3MF	20%	50V
C49	1-162-524-11	CERAMIC CHIP	0.0022MF	20%	25V
C51	1-124-477-11	ELECT	47MF	20%	16V
C61	1-163-063-00	CERAMIC MELF	0.022MF		25V
C62	1-163-063-00	CERAMIC MELF	0.022MF		25V
C63	1-163-063-00	CERAMIC MELF	0.022MF		25V
C64	1-163-063-00	CERAMIC MELF	0.022MF		25V
C81	1-102-961-00	CERAMIC	27PF	5%	50V
C82	1-102-961-00	CERAMIC	27PF	5%	50V
C83	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C84	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C85	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C86	1-124-477-11	ELECT	47MF	20%	16V
C87	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C88	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C101	1-124-925-11	ELECT	2.2MF	20%	50V
C102	1-124-463-00	ELECT	0.1MF	20%	50V
C103	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C104	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C105	1-124-477-11	ELECT	47MF	20%	16V
CC2	1-249-366-11	CARBON MELF 0		5%	1/5W
CC3	1-249-366-11	CARBON MELF 0		5%	1/5W
CF1	1-567-389-11	FILTER, CERAMIC			
CF2	1-567-389-11	FILTER, CERAMIC			
CF21	1-577-075-11	OSCILLATOR, CERAMIC			
CFT21	1-404-853-11	TRANSFORMER,IF(CERAMIC FILTER)			
CNJ1	★1-569-387-11	SOCKET, CONNECTOR (PC BARD) 10P			
CNJ2	★1-569-380-11	SOCKET, CONNECTOR (PC BARD) 3P			
CNJ4	★1-569-380-11	SOCKET, CONNECTOR (PC BARD) 3P			
FE1	1-463-862-21	FRONT END, FM			
FE61	1-236-461-11	ENCAPSULATED COMPONENT			
IC21	8-759-821-45	IC LA1851N			
IC81	8-759-820-91	IC LC7218			
L1	1-410-521-11	MICRO INDUCTOR 100UH			
L21	1-410-171-11	MICRO INDUCTOR 1MMH			
LPF21	1-235-164-00	FILTER, LOW PASS			
LPF22	1-235-164-00	FILTER, LOW PASS			
Q1	8-729-266-93	TRANSISTOR 2SC2669			
Q2	8-729-266-93	TRANSISTOR 2SC2669			
Q21	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q22	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q23	8-729-806-10	TRANSISTOR 2SA1348			
Q24	8-729-900-80	TRANSISTOR DTC114ES			
Q25	8-729-900-80	TRANSISTOR DTC114ES			
Q81	8-729-806-10	TRANSISTOR 2SA1348			
Q82	8-729-900-80	TRANSISTOR DTC114ES			
Q83	8-729-202-67	TRANSISTOR 2SK246-GR3			
Q84	8-729-201-84	TRANSISTOR 2SC3112B			
		RESISTOR			
R1	⚠1-249-401-11	CARBON (SMALL)	47	5%	1/4W F
R3	1-249-329-11	CARBON MELF	330	5%	1/8W
R4	1-249-329-11	CARBON MELF	330	5%	1/8W
R5	1-249-329-11	CARBON MELF	330	5%	1/8W
R6	1-249-350-11	CARBON MELF	18K	5%	1/8W
R7	1-249-329-11	CARBON MELF	330	5%	1/8W
R8	1-249-332-11	CARBON MELF	560	5%	1/8W
R9	1-249-352-11	CARBON MELF	27K	5%	1/8W
R21	⚠1-249-404-00	CARBON (SMALL)	82	5%	1/4W F
R22	1-249-428-11	(US, Canadian)...CARBON (SMALL)	8.2K	5%	1/4W
R22	1-249-433-11	(AUS)...CARBON (SMALL)	22K	5%	1/4W
R23	1-249-335-11	CARBON MELF	1K	5%	1/8W
R24	1-249-353-11	CARBON MELF	33K	5%	1/8W
R25	1-249-346-11	CARBON MELF	8.2K	5%	1/8W
R27	1-249-432-11	CARBON (SMALL)	18K	5%	1/4W
R28	1-249-423-11	CARBON (SMALL)	3.3K	5%	1/4W
R29	1-249-347-11	CARBON MELF	10K	5%	1/8W
R31	1-249-331-11	CARBON MELF	470	5%	1/8W
R32	1-249-347-11	CARBON MELF	10K	5%	1/8W
R33	1-249-347-11	CARBON MELF	10K	5%	1/8W
R35	1-249-355-11	CARBON MELF	47K	5%	1/8W
R37	1-249-359-11	CARBON MELF	100K	5%	1/8W

Ref.No	Part No.	Description				
R38	1-249-363-11	CARBON MELF	220K	5%	1/8W	
R39	1-249-339-11	CARBON MELF	2.2K	5%	1/8W	
R40	1-249-338-11	CARBON MELF	1.8K	5%	1/8W	
R41	1-249-344-11	CARBON MELF	5.6K	5%	1/8W	
R42	1-249-359-11	CARBON MELF	100K	5%	1/8W	
R43	1-249-363-11	CARBON MELF	220K	5%	1/8W	
R44	1-249-339-11	CARBON MELF	2.2K	5%	1/8W	
R45	1-249-338-11	CARBON MELF	1.8K	5%	1/8W	
R46	1-249-344-11	CARBON MELF	5.6K	5%	1/8W	
R47	⚠1-249-409-11	CARBON (SMALL)	220	5%	1/4W	F
R61	1-249-359-11	CARBON MELF	100K	5%	1/8W	
R62	1-249-355-11	CARBON MELF	47K	5%	1/8W	
R63	1-249-315-11	CARBON MELF	22	5%	1/8W	
R81	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R82	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R83	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R84	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R85	1-249-347-11	CARBON MELF	10K	5%	1/8W	
R86	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R87	1-249-347-11	CARBON MELF	10K	5%	1/8W	
R88	1-249-343-11	CARBON MELF	4.7K	5%	1/8W	
R89	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R90	1-249-347-11	CARBON MELF	10K	5%	1/8W	
R91	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R92	⚠1-249-401-11	CARBON (SMALL)	47	5%	1/4W	F
R101	1-249-341-11	CARBON MELF	3.3K	5%	1/8W	
R102	1-249-332-11	CARBON MELF	560	5%	1/8W	
R103	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R104	1-249-328-11	CARBON MELF	270	5%	1/8W	
R105	1-249-343-11	CARBON MELF	4.7K	5%	1/8W	
R106	1-249-339-11	CARBON MELF	2.2K	5%	1/8W	
R107	1-249-343-11	CARBON MELF	4.7K	5%	1/8W	
R108	1-249-323-11	CARBON MELF	100	5%	1/8W	
R109	1-249-343-11	CARBON MELF	4.7K	5%	1/8W	
R110	⚠1-249-405-11	CARBON (SMALL)	100	5%	1/4W	F
RV21	1-238-013-11	ADJ, CARBON 2.2K				
RV22	1-238-017-11	ADJ, CARBON 22K				
RV24	1-238-017-11	ADJ, CARBON 22K				
RV25	1-238-017-11	ADJ, CARBON 22K				
T21	1-404-807-11	TRANSFORMER, DISCRIMINATOR				
TM1	1-536-708-00	TERMINAL BOARD, PUSH 4P (ANTENNA)				
TP1	*1-560-060-00	PIN, CONNECTOR 2P				
XT81	1-577-126-11	VIBRATOR, CRYSTAL (7.2MHz)				

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

EXCEPT FOR TUNER BOARD

Ref.No	Part No.	Description
901	*1-634-875-11	PC BOARD, VOLUME LED
902	*A-4334-788-A	(US, Canadian)...MOUNTED PCB, DISPLAY
902	*A-4341-345-A	(AUS)...MOUNTED PCB, DISPLAY
903	*1-634-876-11	PC BOARD, MUTING
904	*1-634-878-11	IC BOARD, VOLUME
906	*1-634-883-11	IC BOARD, HEADPHONE
907	*1-634-880-11	IC BOARD, INPUT BAL
908	*1-634-879-11	IC BOARD, BALANCE
909	*1-634-873-11	IC BOARD, IC
910	*1-634-872-11	IC BOARD, REAR
911	*1-634-884-11	PC BOARD, POWER IC
912	*1-634-877-11	PC BOARD, POWER
913	*1-636-122-11	PC BOARD, PT
914	*1-533-183-11	(AUS)...HOLDER, FUSE
914	*1-533-185-11	(US, Canadian)...HOLDER, FUSE
915	1-533-183-11	HOLDER, FUSE
916	*A-4334-798-A	MOUNTED PCB, MAIN 55
917	*A-4303-282-A	(US, Canadian)...MOUNTED PCB,TUNER(TCB 007-2LK2)
917	*A-4303-321-A	(AUS)...MOUNTED PCB, TUNER(TCB 007-20K)
918	*1-634-882-11	IC BOARD, VIDEO
919	*1-634-881-11	IC BOARD, SPEAKER TM
920	⚠1-557-577-11	(US, Canadian)...CORD, POWER
920	⚠1-559-912-11	(AUS)...CORD, POWER

CAPACITOR

C201	1-161-494-00	CERAMIC	0.022MF		25V
C202	1-161-494-00	CERAMIC	0.022MF		25V
C203	1-161-494-00	CERAMIC	0.022MF		25V
C204	1-124-477-11	ELECT	47MF	20%	25V
C205	1-161-494-00	CERAMIC	0.022MF		25V
C206	1-161-494-00	CERAMIC	0.022MF		25V
C207	1-123-875-11	ELECT	10MF	20%	50V
C208	1-162-298-31	CERAMIC	0.0047MF	10%	50V
C209	1-123-875-11	ELECT	10MF	20%	50V
C210	1-161-494-00	CERAMIC	0.022MF		25V
C211	1-162-298-31	CERAMIC	0.0047MF	10%	50V
C251	1-124-477-11	ELECT	47MF	20%	25V
C252	1-124-477-11	ELECT	47MF	20%	25V
C253	1-124-472-11	ELECT	470MF	20%	10V
C254	1-124-472-11	ELECT	470MF	20%	10V
C255	1-124-477-11	ELECT	47MF	20%	25V
C301	1-124-927-11	ELECT	4.7MF	20%	50V
C321	1-102-106-00	CERAMIC	100PF	10%	50V
C322	1-124-927-11	ELECT	4.7MF	20%	50V
C323	1-102-106-00	CERAMIC	100PF	10%	50V
C324	1-102-106-00	CERAMIC	100PF	10%	50V
C325	1-124-477-11	ELECT	47MF	20%	25V
C326	1-130-480-00	MYLAR	0.0056MF	5%	50V
C327	1-130-473-00	MYLAR	0.0015MF	5%	50V
C328	1-124-791-11	ELECT	1MF	20%	50V
C329	1-124-477-11	ELECT	47MF	20%	25V
C330	1-124-477-11	ELECT	47MF	20%	25V
C331	1-102-074-00	CERAMIC	0.001MF	10%	50V
C332	1-124-902-00	ELECT	0.47MF	20%	50V
C351	1-124-927-11	ELECT	4.7MF	20%	50V
C371	1-102-106-00	CERAMIC	100PF	10%	50V
C372	1-124-927-11	ELECT	4.7MF	20%	50V
C373	1-102-106-00	CERAMIC	100PF	10%	50V
C374	1-102-106-00	CERAMIC	100PF	10%	50V
C375	1-124-477-11	ELECT	47MF	20%	25V

Ref.No	Part No.	Description			
C376	1-130-480-00	MYLAR	0.0056MF	5%	50V
C377	1-130-473-00	MYLAR	0.0015MF	5%	50V
C378	1-124-791-11	ELECT	1MF	20%	50V
C382	1-124-902-00	ELECT	0.47MF	20%	50V
C401	1-123-875-11	ELECT	10MF	20%	50V
C402	1-101-880-00	CERAMIC	47PF	5%	50V
C403	1-123-875-11	ELECT	10MF	20%	50V
C404	1-123-875-11	ELECT	10MF	20%	50V
C405	1-123-875-11	ELECT	10MF	20%	50V
C406	1-101-880-00	CERAMIC	47PF	5%	50V
C407	1-102-106-00	CERAMIC	100PF	10%	50V
C408	1-124-927-11	ELECT	4.7MF	20%	50V
C410	1-124-477-11	ELECT	47MF	20%	16V
C411	1-124-477-11	ELECT	47MF	20%	16V
C412	1-102-106-00	CERAMIC	100PF	10%	50V
C413	1-102-106-00	CERAMIC	100PF	10%	50V
C414	1-124-927-11	ELECT	4.7MF	20%	50V
C415	1-124-927-11	ELECT	4.7MF	20%	50V
C416	1-123-875-11	ELECT	10MF	20%	50V
C417	1-130-495-00	MYLAR	0.1MF	5%	50V
C418	1-124-477-11	ELECT	47MF	20%	25V
C419	1-130-495-00	MYLAR	0.1MF	5%	50V
C420	1-130-476-00	MYLAR	0.0027MF	5%	50V
C421	1-130-471-00	MYLAR	0.001MF	5%	50V
C422	1-130-495-00	MYLAR	0.1MF	5%	50V
C423	1-124-477-11	ELECT	47MF	20%	25V
C424	1-130-495-00	MYLAR	0.1MF	5%	50V
C425	1-130-495-00	MYLAR	0.1MF	5%	50V
C426	1-130-495-00	MYLAR	0.1MF	5%	50V
C427	1-130-480-00	MYLAR	0.0056MF	5%	50V
C428	1-102-115-00	CERAMIC	560PF	10%	50V
C429	1-124-927-11	ELECT	4.7MF	20%	50V
C430	1-161-051-00	CERAMIC	0.01MF	10%	50V
C431	1-130-479-00	MYLAR	0.0047MF	5%	50V
C432	1-102-114-00	CERAMIC	470PF	10%	50V
C433	1-102-963-00	CERAMIC	33PF	10%	50V
C434	1-130-480-00	MYLAR	0.0056MF	5%	50V
C435	1-130-488-00	MYLAR	0.027MF	5%	50V
C436	1-124-927-11	ELECT	4.7MF	20%	50V
C437	1-136-502-11	MYLAR	0.33MF	5%	50V
C438	1-130-495-00	MYLAR	0.1MF	5%	50V
C439	1-123-875-11	ELECT	10MF	20%	50V
C440	1-130-483-00	MYLAR	0.01MF	5%	50V
C441	1-130-491-00	MYLAR	0.047MF	5%	50V
C442	1-124-477-11	ELECT	47MF	20%	25V
C443	1-124-477-11	ELECT	47MF	20%	25V
C444	1-124-927-11	ELECT	4.7MF	20%	50V
C445	1-124-927-11	ELECT	4.7MF	20%	50V
C446	1-124-927-11	ELECT	4.7MF	20%	50V
C447	1-124-927-11	ELECT	4.7MF	20%	50V
C448	1-130-483-00	MYLAR	0.01MF	5%	50V
C451	1-123-875-11	ELECT	10MF	20%	50V
C452	1-101-880-00	CERAMIC	47PF	5%	50V
C453	1-123-875-11	ELECT	10MF	20%	50V
C455	1-123-875-11	ELECT	10MF	20%	50V

Ref.No	Part No.	Description			
C456	1-101-880-00	CERAMIC	47PF	5%	50V
C457	1-102-106-00	CERAMIC	100PF	10%	50V
C458	1-124-927-11	ELECT	4.7MF	20%	50V
C501	1-124-477-11	ELECT	47MF	20%	25V
C502	1-161-051-00	CERAMIC	0.01MF	10%	50V
C503	1-124-791-11	ELECT	1MF	20%	50V
C504	1-161-055-00	CERAMIC	0.022MF	10%	50V
C505	1-161-055-00	CERAMIC	0.022MF	10%	50V
C506	1-124-902-00	ELECT	0.47MF	20%	50V
C509	1-161-055-00	CERAMIC	0.022MF	10%	50V
C510	1-102-110-00	CERAMIC	220PF	10%	50V
C511	1-102-110-00	CERAMIC	220PF	10%	50V
C512	1-125-486-11	ELECT	0.22F		5.5V
C513	1-161-055-00	CERAMIC	0.022MF	10%	50V
C514	1-161-055-00	CERAMIC	0.022MF	10%	50V
C601	1-130-489-00	MYLAR	0.033MF	5%	50V
C602	1-124-250-00	ELECT	0.15MF	20%	50V
C603	1-130-481-00	MYLAR	0.0068MF	5%	50V
C604	1-130-489-00	MYLAR	0.033MF	5%	50V
C610	1-124-927-11	ELECT	4.7MF	20%	50V
C611	1-124-925-11	ELECT	2.2MF	20%	50V
C612	1-101-880-00	CERAMIC	47PF	5%	50V
C613	1-124-927-11	ELECT	4.7MF	20%	50V
C614	1-124-791-11	ELECT	1MF	20%	50V
C615	1-130-489-00	MYLAR	0.033MF	5%	50V
C616	1-124-477-11	ELECT	47MF	20%	25V
C617	1-124-477-11	ELECT	47MF	20%	25V
C618	1-124-464-11	ELECT	0.22MF	20%	50V
C620	1-124-902-00	ELECT	0.47MF	20%	50V
C621	1-123-875-11	ELECT	10MF	20%	50V
C622	1-102-106-00	CERAMIC	100PF	10%	50V
C623	1-123-875-11	ELECT	10MF	20%	50V
C624	1-123-875-11	ELECT	10MF	20%	50V
C626	1-124-902-00	ELECT	0.47MF	20%	50V
C628	1-124-925-11	ELECT	2.2MF	20%	50V
C631	1-124-791-11	ELECT	1MF	20%	50V
C632	1-124-791-11	ELECT	1MF	20%	50V
C651	1-130-489-00	MYLAR	0.033MF	5%	50V
C652	1-124-250-00	ELECT	0.15MF	20%	50V
C653	1-130-481-00	MYLAR	0.0068MF	5%	50V
C654	1-130-489-00	MYLAR	0.033MF	5%	50V
C660	1-124-927-11	ELECT	4.7MF	20%	50V
C661	1-124-925-11	ELECT	2.2MF	20%	50V
C662	1-101-880-00	CERAMIC	47PF	5%	50V
C663	1-124-927-11	ELECT	4.7MF	20%	50V
C664	1-124-791-11	ELECT	1MF	20%	50V
C665	1-130-489-00	MYLAR	0.033MF	5%	50V
C668	1-124-464-11	ELECT	0.22MF	20%	50V
C670	1-124-902-00	ELECT	0.47MF	20%	50V
C671	1-123-875-11	ELECT	10MF	20%	50V
C672	1-102-106-00	CERAMIC	100PF	10%	50V
C673	1-123-875-11	ELECT	10MF	20%	50V
C674	1-123-875-11	ELECT	10MF	20%	50V
C678	1-124-925-11	ELECT	2.2MF	20%	50V
C701	1-162-290-31	CERAMIC	470PF	10%	50V
C702	1-124-927-11	ELECT	4.7MF	20%	50V
C703	1-162-288-31	CERAMIC	330PF	10%	50V
C704	1-126-101-11	ELECT	100MF	20%	16V
C705	1-162-193-31	CERAMIC	3.3PF	10%	50V
C706	1-124-918-11	ELECT	47MF	20%	63V
C707	1-124-572-11	ELECT	100MF	20%	63V
C708	1-124-915-11	ELECT	10MF	20%	63V
C709	1-124-791-11	ELECT	1MF	20%	100V
C710	1-162-294-31	CERAMIC	0.001MF	10%	50V
C721	1-130-495-00	MYLAR	0.1MF	5%	50V

Ref.No	Part No.	Description			
C722	1-130-491-00	MYLAR	0.047MF	5%	50V
C723	1-124-472-11	ELECT	470MF	20%	6.3V
C724	1-123-875-11	ELECT	10MF	20%	50V
C731	1-124-927-11	ELECT	4.7MF	20%	50V
C732	1-162-282-31	CERAMIC	100PF	10%	50V
C733	1-162-282-31	CERAMIC	100PF	10%	50V
C734	1-124-477-11	ELECT	47MF	20%	25V
C735	1-162-195-31	CERAMIC	4.7PF	10%	50V
C736	1-123-875-11	ELECT	10MF	20%	50V
C737	1-123-875-11	ELECT	10MF	20%	50V
C738	1-130-495-00	MYLAR	0.1MF	5%	50V
C739	1-161-055-00	CERAMIC	0.022MF	10%	50V
C751	1-162-290-31	CERAMIC	470PF	10%	50V
C752	1-124-927-11	ELECT	4.7MF	20%	50V
C753	1-162-288-31	CERAMIC	330PF	10%	50V
C754	1-126-101-11	ELECT	100MF	20%	16V
C755	1-162-193-31	CERAMIC	3.3PF	10%	50V
C756	1-124-918-11	ELECT	47MF	20%	63V
C757	1-124-572-11	ELECT	100MF	20%	63V
C758	1-124-915-11	ELECT	10MF	20%	63V
C759	1-124-791-11	ELECT	1MF	20%	100V
C760	1-162-294-31	CERAMIC	0.001MF	10%	50V
C771	1-130-495-00	MYLAR	0.1MF	5%	50V
C772	1-130-491-00	MYLAR	0.047MF	5%	50V
C801	1-125-479-11	ELECT	10000MF	20%	63V
C802	1-106-367-00	MYLAR	0.01MF	5%	200V
C803	1-106-367-00	MYLAR	0.01MF	5%	200V
C804	1-106-367-00	MYLAR	0.01MF	5%	200V
C805	1-106-367-00	MYLAR	0.01MF	5%	200V
C806	1-123-875-11	ELECT	10MF	20%	50V
C807	1-123-875-11	ELECT	10MF	20%	50V
C811	1-106-367-00	MYLAR	0.01MF	5%	200V
C812	1-106-367-00	MYLAR	0.01MF	5%	200V
C813	1-124-557-11	ELECT	1000MF	20%	25V
C814	1-124-477-11	ELECT	47MF	20%	25V
C815	1-124-477-11	ELECT	47MF	20%	25V
C816	1-124-791-11	ELECT	1MF	20%	50V
C817	1-124-464-11	ELECT	0.22MF	20%	50V
C818	1-102-973-00	CERAMIC	100PF	5%	50V
C819	1-161-055-00	CERAMIC	0.022MF	10%	50V
C831	1-124-563-11	ELECT	2200MF	20%	25V
C832	1-106-367-00	MYLAR	0.01MF	5%	200V
C833	1-161-055-00	CERAMIC	0.022MF	10%	50V
C834	1-161-055-00	CERAMIC	0.022MF	10%	50V
C835	1-124-477-11	ELECT	47MF	20%	25V
C837	1-161-055-00	CERAMIC	0.022MF	10%	50V
C838	1-124-477-11	ELECT	47MF	20%	25V
C851	1-125-479-11	ELECT	10000MF	20%	63V
C852	1-124-563-11	ELECT	2200MF	20%	25V
C853	1-124-563-11	ELECT	2200MF	20%	25V
C881	1-124-563-11	ELECT	2200MF	20%	25V
C882	1-106-367-00	MYLAR	0.01MF	5%	200V
C883	1-161-055-00	CERAMIC	0.022MF	10%	50V
C884	1-161-055-00	CERAMIC	0.022MF	10%	50V
C885	1-124-477-11	ELECT	47MF	20%	25V
C901	⚠1-161-744-00	CERAMIC	0.01MF		400V
CNJ901	⚠1-540-060-11	(US, Canadian)...OUTLET, AC(POLAR)			
CNP201A	*1-506-680-11	PLUG, CONNECTOR (2.5MM) 3P			
CNP201B	*1-569-798-11	PLUG, CONNECTOR 6P			
CNP401	*1-506-707-11	PLUG, CONNECTOR (2.5MM) 3P			
CNP402	*1-506-708-11	PLUG, CONNECTOR (2.5MM) 5P			
CNP501	*1-506-709-11	PLUG, CONNECTOR (2.5MM) 7P			
CNP502	*1-506-709-31	PLUG, CONNECTOR (2.5MM) 7P			
CNP503	*1-506-709-41	PLUG, CONNECTOR (2.5MM) 7P			

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No	Part No.	Description
CNP504	*1-569-395-11	PIN, CONNECTOR (PC BOARD) 10P
CNP505	*1-569-388-11	PIN, CONNECTOR (PC BOARD) 3P
CNP506	*1-569-388-11	PIN, CONNECTOR (PC BOARD) 3P
CNP507	*1-506-779-11	PLUG, CONNECTOR (2.5MM) 4P
CNP508	*1-506-707-11	PLUG, CONNECTOR (2.5MM) 3P
CNP601	*1-564-778-31	PLUG, CONNECTOR (2.5MM) 4P
CNP603	*1-506-779-31	PLUG, CONNECTOR (2.5MM) 4P
CNP605	*1-506-778-11	PLUG, CONNECTOR (2.5MM) 2P
CNP701	*1-506-782-11	PLUG, CONNECTOR (2.5MM) 7P
CNP702	*1-506-778-11	PLUG, CONNECTOR (2.5MM) 2P
CNP703	*1-506-778-11	PLUG, CONNECTOR (2.5MM) 2P
CNP704	*1-564-778-11	PLUG, CONNECTOR (2.5MM) 4P
CNP721	*1-564-778-31	PLUG, CONNECTOR (2.5MM) 4P
CNP731	*1-506-777-11	PLUG, CONNECTOR (2.5MM) 2P
CNP801A	*1-564-778-11	PLUG, CONNECTOR (2.5MM) 4P
CNP801B	*1-564-779-11	PLUG, CONNECTOR (2.5MM) 6P
CNS201	*1-565-482-11	CONNECTOR, BOARD TO BOARD 6P
D201	8-719-014-25	DIODE UZP-3.6B
D202	8-719-912-20	DIODE 1SS120
D203	8-719-303-00	DIODE SEL2510C
D204	8-719-301-52	DIODE SEL2810A-C
D205	8-719-301-52	DIODE SEL2810A-C
D206	8-719-301-52	DIODE SEL2810A-C
D207	8-719-912-20	DIODE 1SS120
D208	8-719-912-20	DIODE 1SS120
D209	8-719-912-20	DIODE 1SS120
D210	8-719-912-20	DIODE 1SS120
D211	8-719-912-20	DIODE 1SS120
D212	8-719-912-20	DIODE 1SS120
D213	8-719-912-20	DIODE 1SS120
D215	8-719-912-20	(AUS)...DIODE 1SS120
D216	8-719-912-20	DIODE 1SS120
D217	8-719-912-20	DIODE 1SS120
D218	8-719-912-20	DIODE 1SS120
D219	8-719-301-52	DIODE SEL2810A-C
D220	8-719-301-52	DIODE SEL2810A-C
D401	8-719-912-20	DIODE 1SS120
D501	8-719-912-20	DIODE 1SS120
D502	8-719-912-20	DIODE 1SS120
D503	8-719-912-20	DIODE 1SS120
D504	8-719-912-20	DIODE 1SS120
D505	8-719-912-20	DIODE 1SS120
D506	8-719-912-20	DIODE 1SS120
D507	8-719-912-20	DIODE 1SS120
D601	8-719-912-20	DIODE 1SS120
D602	8-719-912-20	DIODE 1SS120
D603	8-719-912-20	DIODE 1SS120
D604	8-719-912-20	DIODE 1SS120
D605	8-719-912-20	DIODE 1SS120
D606	8-719-912-20	DIODE 1SS120
D606	8-719-303-00	DIODE SEL2510C
D651	8-719-912-20	DIODE 1SS120
D652	8-719-912-20	DIODE 1SS120
D653	8-719-912-20	DIODE 1SS120
D654	8-719-912-20	DIODE 1SS120
D656	8-719-912-20	DIODE 1SS120
D701	8-719-912-20	DIODE 1SS120
D702	8-719-912-20	DIODE 1SS120
D703	8-719-912-20	DIODE 1SS120
D704	8-719-912-20	DIODE 1SS120
D731	8-719-912-20	DIODE 1SS120
D748	8-719-912-20	DIODE 1SS120
D749	8-719-912-20	DIODE 1SS120
D751	8-719-912-20	DIODE 1SS120
D801	8-719-302-37	DIODE RBV-602
D802	8-719-934-23	DIODE HZS30-3L
D808	8-719-200-82	DIODE 11ES2
D809	8-719-200-82	DIODE 11ES2
D810	8-719-200-82	DIODE 11ES2
D811	8-719-200-82	DIODE 11ES2
D812	8-719-912-20	DIODE 1SS120
D813	8-719-912-20	DIODE 1SS120
D814	8-719-933-41	DIODE HZS6C3L
D815	8-719-933-41	DIODE HZS6C3L
D816	8-719-914-11	DIODE HZ4ALL
D817	8-719-912-20	DIODE 1SS120
D831	8-719-200-82	DIODE 11ES2
D832	8-719-200-82	DIODE 11ES2
D833	8-719-200-82	DIODE 11ES2
D834	8-719-200-82	DIODE 11ES2
D851	8-719-504-60	DIODE S2VB20
F851	⚠1-532-745-11	FUSE, GLASS TUBE (3.15A/125V)
F852	⚠1-532-745-11	FUSE, GLASS TUBE (3.15A/125V)
F901	⚠1-532-203-00	(AUS)...FUSE, TIME-LAG(T2A/250V)
F901	⚠1-532-598-00	(US, Canadian)...FUSE, GLASS TUBE(4A/125V)
F902	⚠1-532-237-00	(AUS)...FUSE, TIME-LAG(T3.15A/250V)
F902	⚠1-532-509-00	(US, Canadian)...FUSE, GLASS TUBE 6.3A
FL201	1-519-603-11	INDICATOR TUBE, FLUORESCENT
IC201	8-759-990-38	IC MSC1162GS
IC202	8-749-920-59	IC A1QH3020S
IC203	8-759-633-84	IC M66311P
IC204	8-759-921-32	IC SN74HC237N
IC205	8-759-916-48	IC SN74HC151N
IC251	8-759-991-77	IC BA7625
IC301	8-759-112-93	IC UPC4570HA-1
IC302	8-759-805-14	IC LC7822
IC303	8-759-805-14	IC LC7822
IC401	8-759-112-93	IC UPC4570HA-1
IC402	8-759-112-93	IC UPC4570HA-1
IC403	8-759-112-93	IC UPC4570HA-1
IC404	8-759-112-93	IC UPC4570HA-1
IC405	8-759-801-01	IC LC4966
IC406	8-759-633-83	IC M50198P
IC407	8-759-929-37	IC NE646N
IC408	8-759-820-11	IC LC7535
IC501	8-759-820-62	IC LB1639
IC502	8-759-150-86	IC UPD75516GF-141-3B9
IC601	8-759-112-93	IC UPC4570HA-1
IC602	8-759-112-93	IC UPC4570HA-1
IC603	8-759-112-93	IC UPC4570HA-1
IC701	8-749-921-97	IC STK-4221V
IC731	8-749-920-76	IC SI-18752
IC831	8-759-604-39	IC M5F78M12L
IC832	8-759-604-35	IC M5F78M05L
IC881	8-759-604-45	IC M5F79M12L
J251	1-565-319-11	JACK, PIN 2P (VIDEO 2 IN, VIDEO 1 OUT)
J252	1-565-319-11	JACK, PIN 2P (VIDEO 1 OUT, MONITOR VIDEO OUT)
J701	1-507-796-71	JACK (HEADPHONES)
L251	1-410-509-11	INDUCTOR 10UH
L401	1-410-521-11	INDUCTOR 100UH
L501	1-410-521-11	INDUCTOR 100UH
L701	*1-420-872-00	COIL, AIR CORE
L731	*1-420-872-00	COIL, AIR CORE
L751	*1-420-872-00	COIL, AIR CORE
PJ401	1-565-320-11	JACK, PIN 6P (TAPE 2 IN/OUT, VIDEO 1 AUDIO IN)
PJ402	1-565-320-11	JACK, PIN 6P (TAPE 1 IN, VIDEO 2 AUDIO IN, VIDEO 1 AUDIO OUT)
PJ403	1-565-320-11	JACK, PIN 6P (DAT IN/OUT, TAPE 1 OUT)

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No	Part No.	Description
PJ404	1-565-258-11	JACK, PIN 4P (PHONO IN, CD IN)
Q201	8-729-900-63	TRANSISTOR DTA124ES
Q202	8-729-900-63	TRANSISTOR DTA124ES
Q203	8-729-900-36	TRANSISTOR DTC124ES
Q204	8-729-900-36	TRANSISTOR DTC124ES
Q251	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q252	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q301	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q351	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q501	8-729-620-05	TRANSISTOR 2SC2603-EF
Q502	8-729-900-63	TRANSISTOR DTA124ES
Q503	8-729-900-63	TRANSISTOR DTA124ES
Q504	8-729-900-63	TRANSISTOR DTA124ES
Q505	8-729-900-63	TRANSISTOR DTA124ES
Q506	8-729-900-63	TRANSISTOR DTA124ES
Q507	8-729-900-36	TRANSISTOR DTC124ES
Q508	8-729-900-63	TRANSISTOR DTA124ES
Q509	8-729-900-36	TRANSISTOR DTC124ES
Q510	8-729-900-36	TRANSISTOR DTC124ES
Q511	8-729-900-63	TRANSISTOR DTA124ES
Q512	8-729-900-36	TRANSISTOR DTC124ES
Q601	8-729-202-67	TRANSISTOR 2SK246GR3
Q602	8-729-620-05	TRANSISTOR 2SC2603-EF
Q603	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q604	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q605	8-729-900-36	TRANSISTOR DTC124ES
Q606	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q607	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q651	8-729-202-67	TRANSISTOR 2SK246GR3
Q652	8-729-620-05	TRANSISTOR 2SC2603-EF
Q653	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q654	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q701	8-729-108-14	TRANSISTOR 2SA988-F
Q702	8-729-620-05	TRANSISTOR 2SC2603-EF
Q703	8-729-620-05	TRANSISTOR 2SC2603-EF
Q704	8-729-620-05	TRANSISTOR 2SC2603-EF
Q705	8-729-620-05	TRANSISTOR 2SC2603-EF
Q731	8-729-108-14	TRANSISTOR 2SA988-F
Q749	8-729-620-05	TRANSISTOR 2SC2603-EF
Q751	8-729-108-14	TRANSISTOR 2SA988-F
Q801	8-729-107-25	TRANSISTOR 2SD1585-L
Q811	8-729-107-25	TRANSISTOR 2SD1585-L
Q812	8-729-620-05	TRANSISTOR 2SC2603-EF
Q813	8-729-620-05	TRANSISTOR 2SC2603-EF
Q814	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q815	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q816	8-729-620-05	TRANSISTOR 2SC2603-EF

RESISTOR

Ref.No	Part No.				
R201	1-249-427-11	CARBON	6.8K	5%	1/4W
R202	1-249-387-11	CARBON	3.3	5%	1/4W
R203	1-249-387-11	CARBON	3.3	5%	1/4W
R204	1-249-430-11	CARBON	12K	5%	1/4W
R205	1-249-433-11	CARBON	22K	5%	1/4W
R206	1-249-433-11	CARBON	22K	5%	1/4W
R207	1-249-405-11	CARBON	100	5%	1/4W
R208	1-249-405-11	CARBON	100	5%	1/4W
R209	1-249-409-11	CARBON	220	5%	1/4W
R210	1-249-411-11	CARBON	330	5%	1/4W
R211	1-249-411-11	CARBON	330	5%	1/4W
R212	1-249-411-11	CARBON	330	5%	1/4W
R213	1-249-405-11	CARBON	100	5%	1/4W
R214	1-249-411-11	CARBON	330	5%	1/4W
R215	1-249-411-11	CARBON	330	5%	1/4W
R216	1-249-411-11	CARBON	330	5%	1/4W
R217	1-249-411-11	CARBON	330	5%	1/4W
R218	1-249-411-11	CARBON	330	5%	1/4W
R219	1-249-411-11	CARBON	330	5%	1/4W
R220	1-249-411-11	CARBON	330	5%	1/4W
R221	1-249-411-11	CARBON	330	5%	1/4W
R222	1-249-411-11	CARBON	330	5%	1/4W
R223	1-249-411-11	CARBON	330	5%	1/4W
R224	1-249-433-11	CARBON	22K	5%	1/4W
R225	1-249-433-11	CARBON	22K	5%	1/4W
R226	1-249-433-11	CARBON	22K	5%	1/4W
R227	1-249-433-11	CARBON	22K	5%	1/4W
R228	1-249-433-11	CARBON	22K	5%	1/4W
R229	1-249-433-11	CARBON	22K	5%	1/4W
R230	1-249-433-11	CARBON	22K	5%	1/4W
R231	1-249-433-11	CARBON	22K	5%	1/4W
R232	1-249-429-11	CARBON	10K	5%	1/4W
R233	1-249-429-11	CARBON	10K	5%	1/4W
R251	1-247-804-11	CARBON	75	5%	1/4W
R252	1-247-804-11	CARBON	75	5%	1/4W
R253	1-249-403-11	CARBON	68	5%	1/4W
R254	1-249-417-11	CARBON	1K	5%	1/4W
R255	1-249-403-11	CARBON	68	5%	1/4W
R256	1-249-417-11	CARBON	1K	5%	1/4W
R257	1-249-405-11	CARBON	100	5%	1/4W
R258	1-249-405-11	CARBON	100	5%	1/4W
R259	1-249-405-11	CARBON	100	5%	1/4W
R260	1-249-405-11	CARBON	100	5%	1/4W
R261	1-249-437-11	CARBON	47K	5%	1/4W
R262	1-249-437-11	CARBON	47K	5%	1/4W
R301	1-249-411-11	CARBON	330	5%	1/4W
R302	1-249-417-11	CARBON	1K	5%	1/4W
R303	1-249-417-11	CARBON	1K	5%	1/4W
R304	1-249-417-11	CARBON	1K	5%	1/4W
R305	1-249-417-11	CARBON	1K	5%	1/4W
R306	1-249-417-11	CARBON	1K	5%	1/4W
R307	1-249-417-11	CARBON	1K	5%	1/4W
R308	1-249-417-11	CARBON	1K	5%	1/4W
R309	1-249-417-11	CARBON	1K	5%	1/4W
R310	1-249-417-11	CARBON	1K	5%	1/4W
R311	1-249-417-11	CARBON	1K	5%	1/4W
R312	1-249-437-11	CARBON	47K	5%	1/4W
R321	1-249-441-11	CARBON	100K	5%	1/4W
R322	1-249-441-11	CARBON	100K	5%	1/4W
R323	1-249-415-11	CARBON	680	5%	1/4W
R324	1-247-897-11	CARBON	560K	5%	1/4W
R325	1-249-437-11	CARBON	47K	5%	1/4W
R326	1-249-441-11	CARBON	100K	5%	1/4W
R327	1-249-410-11	CARBON	270	5%	1/4W
R328	1-249-405-11	CARBON	100	5%	1/4W
R329	1-249-405-11	CARBON	100	5%	1/4W
R330	1-249-425-11	CARBON	4.7K	5%	1/4W
R331	1-249-429-11	CARBON	10K	5%	1/4W
R351	1-249-411-11	CARBON	330	5%	1/4W
R352	1-249-417-11	CARBON	1K	5%	1/4W
R353	1-249-417-11	CARBON	1K	5%	1/4W
R354	1-249-417-11	CARBON	1K	5%	1/4W
R355	1-249-417-11	CARBON	1K	5%	1/4W
R356	1-249-417-11	CARBON	1K	5%	1/4W
R357	1-249-417-11	CARBON	1K	5%	1/4W
R358	1-249-417-11	CARBON	1K	5%	1/4W
R359	1-249-417-11	CARBON	1K	5%	1/4W
R360	1-249-417-11	CARBON	1K	5%	1/4W
R361	1-249-417-11	CARBON	1K	5%	1/4W
R362	1-249-437-11	CARBON	47K	5%	1/4W

Ref.No	Part No.	Description			
R371	1-249-441-11	CARBON	100K	5%	1/4W
R372	1-249-441-11	CARBON	100K	5%	1/4W
R373	1-249-415-11	CARBON	680	5%	1/4W
R374	1-247-897-11	CARBON	560K	5%	1/4W
R375	1-249-437-11	CARBON	47K	5%	1/4W
R376	1-249-441-11	CARBON	100K	5%	1/4W
R377	1-249-410-11	CARBON	270	5%	1/4W
R381	1-249-429-11	CARBON	10K	5%	1/4W
R401	1-247-887-00	CARBON	220K	5%	1/4W
R402	1-247-887-00	CARBON	220K	5%	1/4W
R403	1-249-417-11	CARBON	1K	5%	1/4W
R404	1-249-429-11	CARBON	10K	5%	1/4W
R405	1-249-429-11	CARBON	10K	5%	1/4W
R406	1-247-887-00	CARBON	220K	5%	1/4W
R407	1-249-429-11	CARBON	10K	5%	1/4W
R408	1-249-429-11	CARBON	10K	5%	1/4W
R409	1-249-429-11	CARBON	10K	5%	1/4W
R410	1-247-895-00	CARBON	470K	5%	1/4W
R411	1-249-429-11	CARBON	10K	5%	1/4W
R412	1-249-429-11	CARBON	10K	5%	1/4W
R413	1-249-441-11	CARBON	100K	5%	1/4W
R420	1-247-887-00	CARBON	220K	5%	1/4W
R421	1-249-429-11	CARBON	10K	5%	1/4W
R422	1-249-429-11	CARBON	10K	5%	1/4W
R423	1-249-429-11	CARBON	10K	5%	1/4W
R424	1-249-441-11	CARBON	100K	5%	1/4W
R425	1-249-434-11	CARBON	27K	5%	1/4W
R426	1-247-903-00	CARBON	1M	5%	1/4W
R427	1-249-429-11	CARBON	10K	5%	1/4W
R428	1-249-431-11	CARBON	15K	5%	1/4W
R429	1-249-431-11	CARBON	15K	5%	1/4W
R430	1-249-429-11	CARBON	10K	5%	1/4W
R431	1-249-431-11	CARBON	15K	5%	1/4W
R432	1-249-422-11	CARBON	2.7K	5%	1/4W
R433	1-247-885-00	CARBON	180K	5%	1/4W
R434	1-249-437-11	CARBON	47K	5%	1/4W
R435	1-249-429-11	CARBON	10K	5%	1/4W
R436	1-249-435-11	CARBON	33K	5%	1/4W
R437	1-249-439-11	CARBON	68K	5%	1/4W
R438	1-249-433-11	CARBON	22K	5%	1/4W
R439	1-249-433-11	CARBON	22K	5%	1/4W
R440	1-249-408-11	CARBON	180	5%	1/4W
R441	1-249-423-11	CARBON	3.3K	5%	1/4W
R442	1-247-889-00	CARBON	270K	5%	1/4W
R443	1-249-409-11	CARBON	220	5%	1/4W
R444	1-249-409-11	CARBON	220	5%	1/4W
R445	1-249-441-11	CARBON	100K	5%	1/4W
R446	1-249-435-11	CARBON	33K	5%	1/4W
R447	1-249-441-11	CARBON	100K	5%	1/4W
R448	1-249-413-11	CARBON	470	5%	1/4W
R449	1-249-429-11	CARBON	10K	5%	1/4W
R450	1-249-429-11	CARBON	10K	5%	1/4W
R451	1-247-887-00	CARBON	220K	5%	1/4W
R452	1-247-887-00	CARBON	220K	5%	1/4W
R453	1-249-417-11	CARBON	1K	5%	1/4W
R454	1-249-429-11	CARBON	10K	5%	1/4W
R460	1-247-895-00	CARBON	470K	5%	1/4W
R461	1-249-429-11	CARBON	10K	5%	1/4W
R462	1-249-429-11	CARBON	10K	5%	1/4W
R463	1-249-441-11	CARBON	100K	5%	1/4W
R501	1-249-437-11	CARBON	47K	5%	1/4W
R502	1-249-437-11	CARBON	47K	5%	1/4W
R503	1-249-387-11	CARBON	3.3	5%	1/4W
R504	1-249-437-11	CARBON	47K	5%	1/4W
R505	1-249-437-11	CARBON	47K	5%	1/4W

Ref.No	Part No.	Description			
R506	1-249-437-11	CARBON	47K	5%	1/4W
R507	1-249-437-11	CARBON	47K	5%	1/4W
R508	1-249-437-11	CARBON	47K	5%	1/4W
R509	1-249-437-11	CARBON	47K	5%	1/4W
R510	1-249-437-11	CARBON	47K	5%	1/4W
R511	1-249-429-11	CARBON	10K	5%	1/4W
R512	1-249-429-11	CARBON	10K	5%	1/4W
R513	1-249-429-11	CARBON	10K	5%	1/4W
R514	1-249-429-11	CARBON	10K	5%	1/4W
R515	1-249-429-11	CARBON	10K	5%	1/4W
R516	1-249-425-11	CARBON	4.7K	5%	1/4W
R517	1-249-425-11	CARBON	4.7K	5%	1/4W
R518	1-249-425-11	CARBON	4.7K	5%	1/4W
R521	1-249-437-11	CARBON	47K	5%	1/4W
R522	1-249-437-11	CARBON	47K	5%	1/4W
R523	1-249-422-11	CARBON	2.7K	5%	1/4W
R524	1-249-429-11	CARBON	10K	5%	1/4W
R524	1-249-441-11	CARBON	100K	5%	1/4W
R525	1-249-429-11	CARBON	10K	5%	1/4W
R526	1-249-429-11	CARBON	10K	5%	1/4W
R527	1-249-429-11	CARBON	10K	5%	1/4W
R528	1-249-441-11	CARBON	100K	5%	1/4W
R530	1-249-425-11	CARBON	4.7K	5%	1/4W
R531	1-249-437-11	CARBON	47K	5%	1/4W
R532	1-249-429-11	CARBON	10K	5%	1/4W
R533	1-249-429-11	CARBON	10K	5%	1/4W
R534	1-249-417-11	CARBON	1K	5%	1/4W
R535	1-249-429-11	CARBON	10K	5%	1/4W
R536	1-249-429-11	CARBON	10K	5%	1/4W
R537	1-247-887-00	CARBON	220K	5%	1/4W
R538	1-249-429-11	CARBON	10K	5%	1/4W
R547	1-249-405-11	CARBON	100	5%	1/4W
R548	1-249-437-11	CARBON	47K	5%	1/4W
R549	1-249-437-11	CARBON	47K	5%	1/4W
R550	1-249-437-11	CARBON	47K	5%	1/4W
R551	1-249-437-11	CARBON	47K	5%	1/4W
R552	1-249-437-11	CARBON	47K	5%	1/4W
R553	1-249-437-11	CARBON	47K	5%	1/4W
R555	1-247-903-00	CARBON	1M	5%	1/4W
R601	1-249-429-11	CARBON	10K	5%	1/4W
R602	1-249-421-11	CARBON	2.2K	5%	1/4W
R610	1-249-441-11	CARBON	100K	5%	1/4W
R611	1-249-427-11	CARBON	6.8K	5%	1/4W
R612	1-249-435-11	CARBON	33K	5%	1/4W
R613	1-249-441-11	CARBON	100K	5%	1/4W
R614	1-249-441-11	CARBON	100K	5%	1/4W
R615	1-249-417-11	CARBON	1K	5%	1/4W
R616	1-247-883-00	CARBON	150K	5%	1/4W
R617	1-249-427-11	CARBON	6.8K	5%	1/4W
R618	1-249-412-11	CARBON	390	5%	1/4W
R619	1-247-903-00	CARBON	1M	5%	1/4W
R620	1-249-421-11	CARBON	2.2K	5%	1/4W
R621	1-249-433-11	CARBON	22K	5%	1/4W
R630	1-249-417-11	CARBON	1K	5%	1/4W
R631	1-249-405-11	CARBON	100	5%	1/4W
R632	1-249-429-11	CARBON	10K	5%	1/4W
R633	1-249-417-11	CARBON	1K	5%	1/4W
R634	1-249-441-11	CARBON	100K	5%	1/4W
R635	1-249-417-11	CARBON	1K	5%	1/4W
R636	1-249-421-11	CARBON	2.2K	5%	1/4W
R637	1-247-885-00	CARBON	180K	5%	1/4W
R638	1-249-429-11	CARBON	10K	5%	1/4W
R639	1-249-429-11	CARBON	10K	5%	1/4W
R640	1-249-441-11	CARBON	100K	5%	1/4W
R641	1-249-405-11	CARBON	100	5%	1/4W

Ref.No	Part No.	Description				
R642	1-249-429-11	CARBON	10K	5%	1/4W	
R643	1-249-417-11	CARBON	1K	5%	1/4W	
R644	1-249-412-11	CARBON	390	5%	1/4W	
R645	1-249-409-11	CARBON	220	5%	1/4W	
R647	1-249-441-11	CARBON	100K	5%	1/4W	
R649	1-249-441-11	CARBON	100K	5%	1/4W	
R651	1-249-429-11	CARBON	10K	5%	1/4W	
R652	1-249-421-11	CARBON	2.2K	5%	1/4W	
R660	1-249-441-11	CARBON	100K	5%	1/4W	
R661	1-249-427-11	CARBON	6.8K	5%	1/4W	
R662	1-249-435-11	CARBON	33K	5%	1/4W	
R663	1-249-441-11	CARBON	100K	5%	1/4W	
R664	1-249-441-11	CARBON	100K	5%	1/4W	
R665	1-249-417-11	CARBON	1K	5%	1/4W	
R666	1-247-883-00	CARBON	150K	5%	1/4W	
R667	1-249-427-11	CARBON	6.8K	5%	1/4W	
R668	1-249-412-11	CARBON	390	5%	1/4W	
R669	1-247-903-00	CARBON	1M	5%	1/4W	
R670	1-249-421-11	CARBON	2.2K	5%	1/4W	
R671	1-249-433-11	CARBON	22K	5%	1/4W	
R680	1-249-417-11	CARBON	1K	5%	1/4W	
R681	1-249-405-11	CARBON	100	5%	1/4W	
R682	1-249-429-11	CARBON	10K	5%	1/4W	
R683	1-249-417-11	CARBON	1K	5%	1/4W	
R684	1-249-441-11	CARBON	100K	5%	1/4W	
R685	1-249-417-11	CARBON	1K	5%	1/4W	
R686	1-249-421-11	CARBON	2.2K	5%	1/4W	
R687	1-247-885-00	CARBON	180K	5%	1/4W	
R688	1-249-429-11	CARBON	10K	5%	1/4W	
R689	1-249-429-11	CARBON	10K	5%	1/4W	
R690	1-249-441-11	CARBON	100K	5%	1/4W	
R697	1-249-441-11	CARBON	100K	5%	1/4W	
R699	1-249-441-11	CARBON	100K	5%	1/4W	
R701	1-249-417-11	CARBON	1K	5%	1/4W	
R702	1-249-438-11	CARBON	56K	5%	1/4W	
R703	1-249-410-11	CARBON	270	5%	1/4W	
R704	1-249-438-11	CARBON	56K	5%	1/4W	
R705	1-249-425-11	CARBON	4.7K	5%	1/4W	
R706	1-247-840-00	CARBON	2.4K	5%	1/4W	
R707	⚠1-217-156-00	METAL PLATE	2		5W	F
R708	1-249-419-11	CARBON	1.5K	5%	1/4W	
R709	⚠1-249-405-11	CARBON	100	5%	1/4W	F
R710	⚠1-249-405-11	CARBON	100	5%	1/4W	F
R711	1-249-413-11	CARBON	470	5%	1/4W	
R712	1-247-840-00	CARBON	2.4K	5%	1/4W	
R721	1-249-431-11	CARBON	15K	5%	1/4W	
R722	⚠1-247-727-11	CARBON	10	5%	1/2W	F
R723	1-249-433-11	CARBON	22K	5%	1/4W	
R724	1-247-768-00	CARBON	2.4	5%	1/4W	
R725	1-247-768-00	CARBON	2.4	5%	1/4W	
R726	1-249-435-11	CARBON	33K	5%	1/4W	
R727	1-249-435-11	CARBON	33K	5%	1/4W	
R728	1-249-427-11	CARBON	6.8K	5%	1/4W	
R729	⚠1-215-863-11	METAL OXIDE	100	5%	1W	F
R730	1-249-437-11	CARBON	47K	5%	1/4W	
R731	1-249-435-11	CARBON	33K	5%	1/4W	
R732	1-249-439-11	CARBON	68K	5%	1/4W	
R733	1-249-419-11	CARBON	1.5K	5%	1/4W	
R734	1-249-439-11	CARBON	68K	5%	1/4W	
R735	1-249-423-11	CARBON	3.3K	5%	1/4W	
R736	1-249-431-11	CARBON	15K	5%	1/4W	
R737	⚠1-216-361-00	METAL OXIDE	0.22	5%	2W	F
R738	⚠1-249-393-11	CARBON	10	5%	1/4W	
R739	1-247-768-00	CARBON	2.4	5%	1/4W	
R740	1-247-768-00	CARBON	2.4	5%	1/4W	

Ref.No	Part No.	Description				
R741	1-249-433-11	CARBON	22K	5%	1/4W	
R747	⚠1-215-890-11	METAL OXIDE	470	5%	2W	F
R748	⚠1-247-742-11	CARBON	180	5%	1/2W	
R749	1-249-437-11	CARBON	47K	5%	1/4W	
R751	1-249-417-11	CARBON	1K	5%	1/4W	
R752	1-249-438-11	CARBON	56K	5%	1/4W	
R753	1-249-410-11	CARBON	270	5%	1/4W	
R754	1-249-438-11	CARBON	56K	5%	1/4W	
R755	1-249-425-11	CARBON	4.7K	5%	1/4W	
R756	1-247-840-00	CARBON	2.4K	5%	1/4W	
R757	⚠1-217-156-00	METAL PLATE	0.22		5W	F
R758	1-249-419-11	CARBON	1.5K	5%	1/4W	
R761	1-249-413-11	CARBON	470	5%	1/4W	
R762	1-247-840-00	CARBON	2.4K	5%	1/4W	
R771	1-249-431-11	CARBON	15K	5%	1/4W	
R772	⚠1-247-727-11	CARBON	10	5%	1/2W	F
R773	1-249-433-11	CARBON	22K	5%	1/4W	
R774	1-247-768-00	CARBON	2.4	5%	1/4W	
R775	1-247-768-00	CARBON	2.4	5%	1/4W	
R776	1-249-435-11	CARBON	33K	5%	1/4W	
R797	⚠1-215-890-11	METAL OXIDE	470	5%	2W	F
R801	⚠1-249-409-11	CARBON	220	5%	1/4W	F
R802	1-249-426-11	CARBON	5.6K	5%	1/4W	
R803	⚠1-216-427-00	METAL OXIDE	120	5%	1W	F
R811	1-249-417-11	CARBON	1K	5%	1/4W	
R812	1-249-437-11	CARBON	47K	5%	1/4W	
R813	1-249-429-11	CARBON	10K	5%	1/4W	
R814	1-249-433-11	CARBON	22K	5%	1/4W	
R815	1-249-425-11	CARBON	4.7K	5%	1/4W	
R816	1-249-426-11	CARBON	5.6K	5%	1/4W	
R817	1-249-429-11	CARBON	10K	5%	1/4W	
R818	1-249-426-11	CARBON	5.6K	5%	1/4W	
R819	1-249-417-11	CARBON	1K	5%	1/4W	
R820	1-249-417-11	CARBON	1K	5%	1/4W	
R821	1-249-429-11	CARBON	10K	5%	1/4W	
R822	1-249-396-11	CARBON	18	5%	1/4W	
R831	⚠1-249-385-11	CARBON	2.2	5%	1/4W	F
R881	⚠1-249-385-11	CARBON	2.2	5%	1/4W	F
R901	⚠1-202-725-00	SOLID	3.3M	10%	1/2W	
RB501	1-233-082-11	COMPOSITION CIRCUIT BLOCK (10K X 10)				
RV401	1-241-049-11	RES, VAR, CARBON 100K (INPUT BALANCE)				
RV601	1-241-047-11	RES, VAR, CARBON 50K/50K (BASS)				
RV602	1-241-047-11	RES, VAR, CARBON 50K/50K (TREBLE)				
RV603	1-241-048-11	RES, VAR, CARBON 100K/100K (BALANCE)				
RV604	1-241-027-11	RES, VAR, CARBON 100K/100K/100K (VOLUME)				
RY601	1-515-726-11	RELAY				
RY701	1-515-732-11	RELAY				
RY731	1-515-626-11	RELAY				
RY901	⚠1-515-617-11	(AUS)...RELAY				
RY901	⚠1-515-701-11	(US, Canadian)...RELAY				
S201	1-554-303-21	SWITCH, KEY BOARD (POWER)				
S202	1-554-303-21	SWITCH, KEY BOARD (DBFB)				
S203	1-554-303-21	SWITCH, KEY BOARD (−20dB MUTING)				
S204	1-554-303-21	SWITCH, KEY BOARD (INDEX TUNING −)				
S205	1-554-303-21	SWITCH, KEY BOARD (INDEX TUNING +)				
S206	1-554-303-21	SWITCH, KEY BOARD (PRESET TUNING −)				
S207	1-554-303-21	SWITCH, KEY BOARD (PRESET TUNING +)				
S208	1-554-303-21	SWITCH, KEY BOARD (CURSOR MODE TUNER INDEX)				
S209	1-554-303-21	SWITCH, KEY BOARD (CURSOR MODE TUNER TUNING)				
S210	1-554-303-21	SWITCH, KEY BOARD (CURSOR MODE SURROUND)				
S211	1-554-303-21	SWITCH, KEY BOARD (△)				
S212	1-554-303-21	SWITCH, KEY BOARD (▽)				

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No	Part No.	Description
S213	1-554-303-21	SWITCH, KEY BOARD (TUNING DIRECT)
S215	1-554-303-21	SWITCH, KEY BOARD (◁)
S216	1-554-303-21	SWITCH, KEY BOARD (▷)
S217	1-554-303-21	SWITCH, KEY BOARD (SHIFT)
S218	1-554-303-21	SWITCH, KEY BOARD (9)
S219	1-554-303-21	SWITCH, KEY BOARD (6)
S220	1-554-303-21	SWITCH, KEY BOARD (3)
S221	1-554-303-21	SWITCH, KEY BOARD (TUNER FM MODE)
S222	1-554-303-21	SWITCH, KEY BOARD (TUNER FM/AM)
S223	1-554-303-21	SWITCH, KEY BOARD (INDEX TUNING INDEX SELECT)
S224	1-554-303-21	SWITCH, KEY BOARD (0)
S225	1-554-303-21	SWITCH, KEY BOARD (8)
S226	1-554-303-21	SWITCH, KEY BOARD (5)
S227	1-554-303-21	SWITCH, KEY BOARD (2)
S228	1-554-303-21	SWITCH, KEY BOARD (MEMORY)
S229	1-554-303-21	SWITCH, KEY BOARD (7)
S230	1-554-303-21	SWITCH, KEY BOARD (4)
S231	1-554-303-21	SWITCH, KEY BOARD (1)
S232	1-554-303-21	SWITCH, KEY BOARD (EDIT AUDIO)
S233	1-554-303-21	SWITCH, KEY BOARD (SURROUND MODE)
S234	1-554-303-21	SWITCH, KEY BOARD (SURROUND ON/OFF)
S235	1-554-303-21	SWITCH, KEY BOARD (DAT)
S236	1-554-303-21	SWITCH, KEY BOARD (CD)
S237	1-554-303-21	SWITCH, KEY BOARD (TUNER)
S238	1-554-303-21	SWITCH, KEY BOARD (PHONO)
S239	1-554-303-21	SWITCH, KEY BOARD (TAPE 2 MONITOR)
S240	1-554-303-21	SWITCH, KEY BOARD (TAPE 1)
S241	1-554-303-21	SWITCH, KEY BOARD (VIDEO 2/LD)
S242	1-554-303-21	SWITCH, KEY BOARD (VIDEO 1)
S243	1-554-303-21	SWITCH, KEY BOARD (DISPLAY MODE FREQ/ INDEX)
S701	1-572-291-11	SWITCH, ROTARY SLIDE (SPEAKER)
T802	⚠1-450-083-11	(US)...TRANSFORMER, POWER
T802	⚠1-450-160-11	(Canadian)...TRANSFORMER, POWER
T802	⚠1-450-291-11	(AUS)...TRANSFORMER, POWER
T901	⚠1-448-517-21	(US, Canadian)...TRANSFORMER, POWER
T901	⚠1-450-262-11	(AUS)...TRANSFORMER, POWER
TM701	1-536-706-00	TERMINAL BOARD (SP)
TM702	*1-536-708-41	TERMINAL BOARD, PUSH 4P
VZ901	⚠1-807-180-11	(AUS)...VARISTOR(SNR-14A 300K)
VZ901	⚠1-807-293-11	(US, Canadian)...VARISTOR(SNR-14A 140K)
X401	1-567-818-21	VIBRATOR, CERAMIC
X501	1-577-101-11	VIBRATOR, CERAMIC

Ref.No	Part No.	Description
		ACCESSORIES & PACKING MATERIALS
		**********
	1-465-423-11	REMOTE COMMANDER (RM-S103)
	1-501-224-00	ANTENNA, FEEDER
	1-501-374-11	ANTENNA, LOOP
	2-181-754-01	COVER, BATTERY
	3-701-630-00	BAG, POLYETHYLENE
	*3-704-350-01	SHEET (STANDARD), PROTECTION
	3-751-884-21	MANUAL, INSTRUCTION(ENGLISH)
	3-751-884-31	(Canadian)...MANUAL, INSTRUCTION(FRENCH)
	*4-924-994-11	CUSHION (BOTTOM)
	*4-924-995-01	CUSHION (TOP)
	*4-938-149-01	INDIVIDUAL CARTON

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(including 9-955-964-81)

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